

## SIDE ROTARY

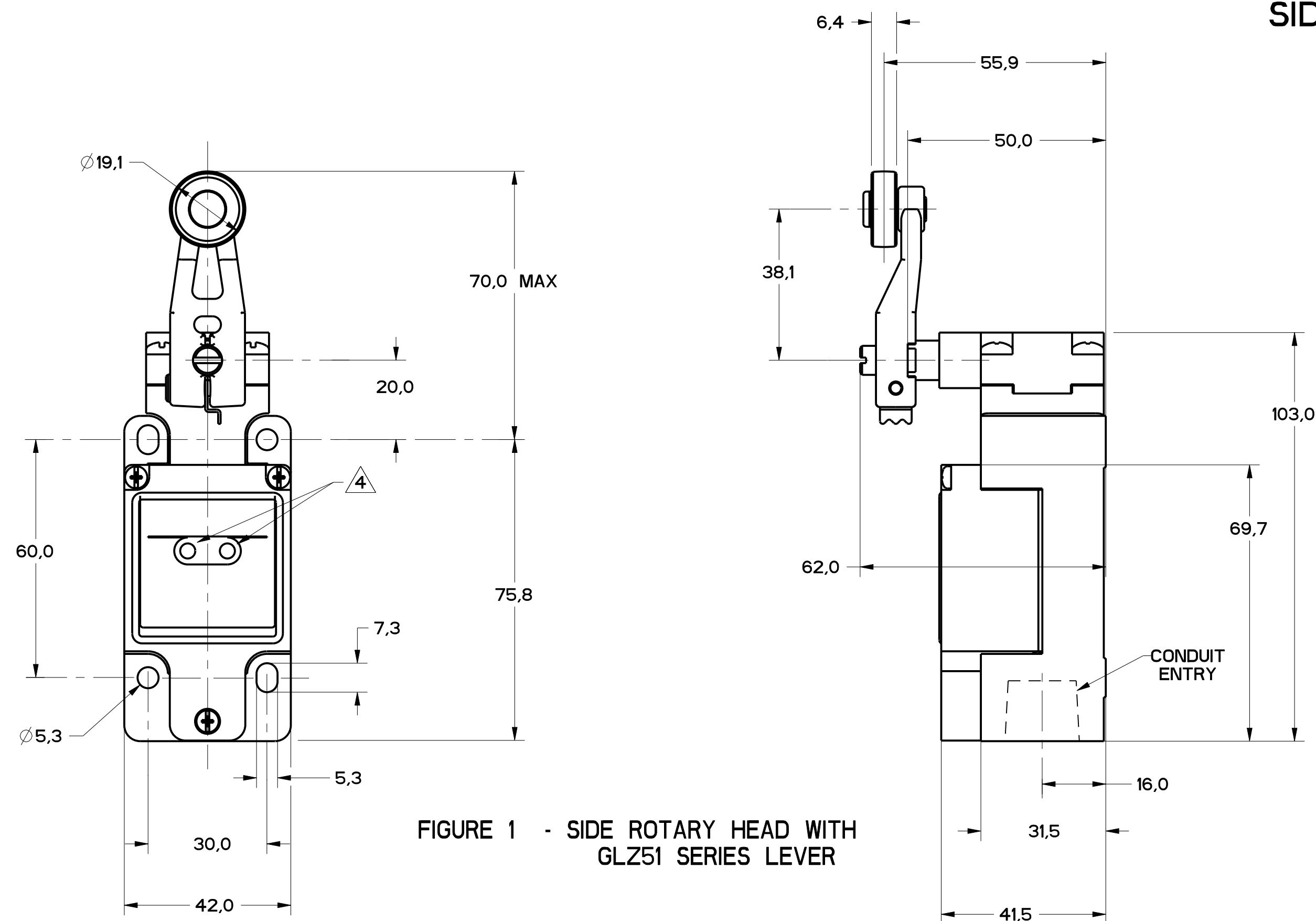


FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

ALUMINUM ROD  
GLZ54J: 200.00 / 7.870 MAX  
GLZ54K: 140.00 / 5.510 MAX  
STAINLESS STEEL ROD  
GLZ54N: 318.00 / 12.490 MAX

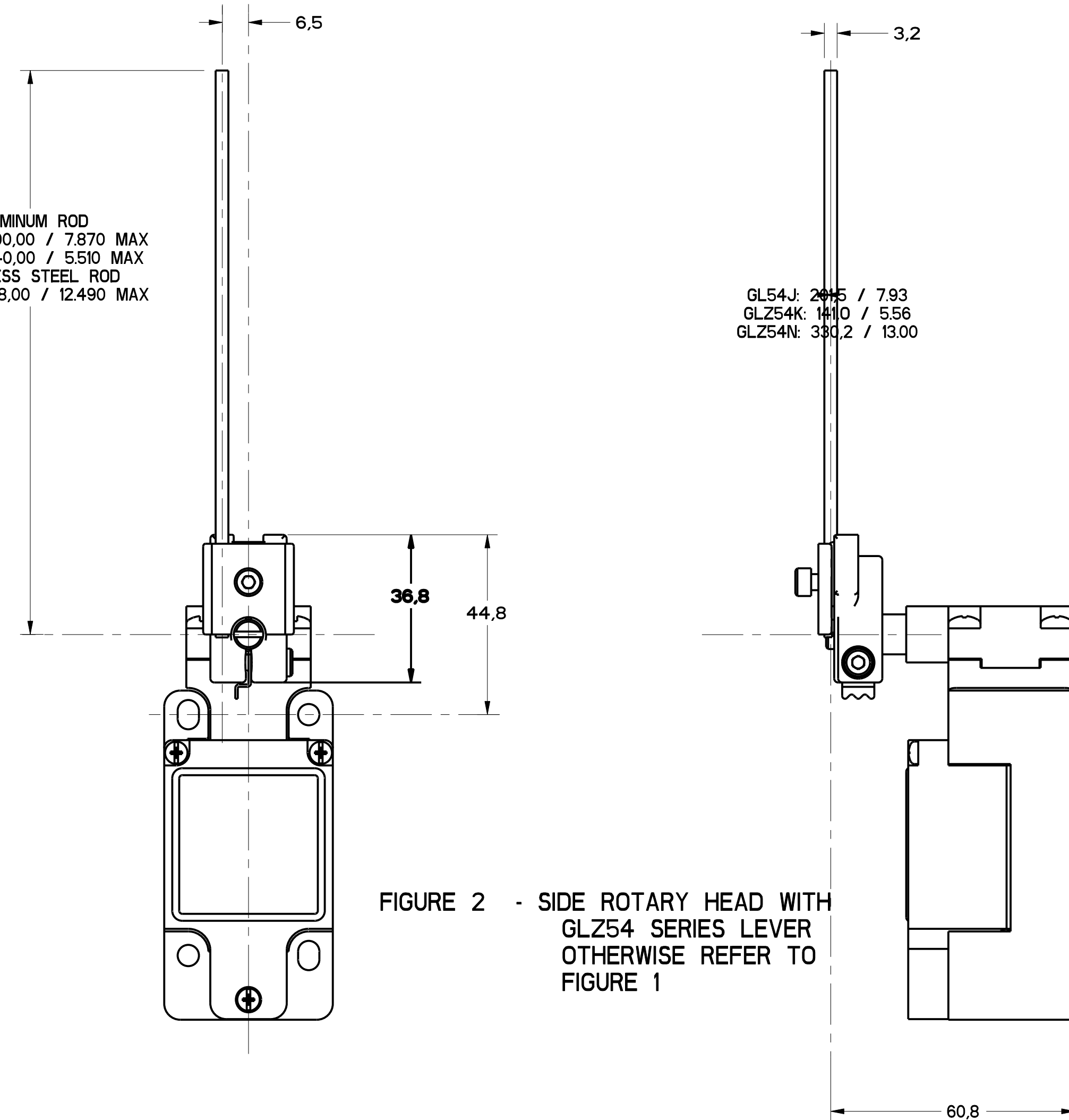


FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

| FIGURE | CATALOG LISTING | CONDUIT ENTRY |
|--------|-----------------|---------------|
| 1A     | GL*A SERIES     | 1/2-14 NPT    |
| 1B     | GL*B SERIES     | PG13.5        |
| 1C     | GL*C SERIES     | 20mm          |
| 1D     | GL*D SERIES     | PF1/2         |

| ELECTRICAL RATING $\Delta 5$ |            |            |            |
|------------------------------|------------|------------|------------|
| AC                           |            | DC         |            |
| A600<br>Ue                   | AC15<br>Ie | Q300<br>Ue | DC13<br>Ie |
| (VOLTS)                      | (AMPS)     | (VOLTS)    | (AMPS)     |
| 120                          | 6          | 24         | 2.8        |
| 240                          | 3          | 125        | .55        |
| 380                          | 1.9        | 250        | .27        |
| 480                          | 1.5        |            |            |
| 500                          | 1.4        |            |            |
| 600                          | 1.2        |            |            |

| ENVIRONMENTAL RATING       |
|----------------------------|
| IP67                       |
| NEMA/UL TYPES 1, 4, 12, 13 |

## NOTES

- HEADS MAY BE INDEXED IN 90° INCREMENTS.
- LEVERS MAY BE KEYED TO THE SHAFT AT 90° INCREMENTS. THEY MAY ALSO BE ATTACHED, BUT NOT KEYED ANYWHERE ON THE SHAFT.
- FOR ADDITIONAL LEVERS SEE "M" DRAWING CHART GLZ5
- THE RIGHT INDICATOR IS YELLOW AND INDICATES "OUTPUT STATUS" IT IS ON GLG SERIES PRODUCTS ONLY.
- THE MAXIMUM VOLTAGE,  $V_e$  OF GLG SERIES PRODUCTS IS THE MAXIMUM RATED VOLTAGE OF INDICATION LIGHTS
- FREE POSITION, OPERATE POINT, OVERTRAVEL AND PRETRAVEL ALL TO EN50041
- CAM TRAVEL FOR FIG 9 ONLY APPLIES WHEN LEVER IS ADJUSTED TO 38.1 / 1.50
- TEMPERATURE RANGE  
(ALL PRODUCTS EXCEPT w/SIDE ROTARY OPERATING HEAD)  
OPERATING: -25°C TO +85°C / -13°F TO +185°F  
STORAGE: -40°C TO +85°C / -40°F TO +185°F  
(PRODUCTS w/SIDE ROTARY OPERATING HEAD)  
OPERATING: -40°C TO +85°C / -40°F TO +185°F  
STORAGE: -40°C TO +85°C / -40°F TO +185°F

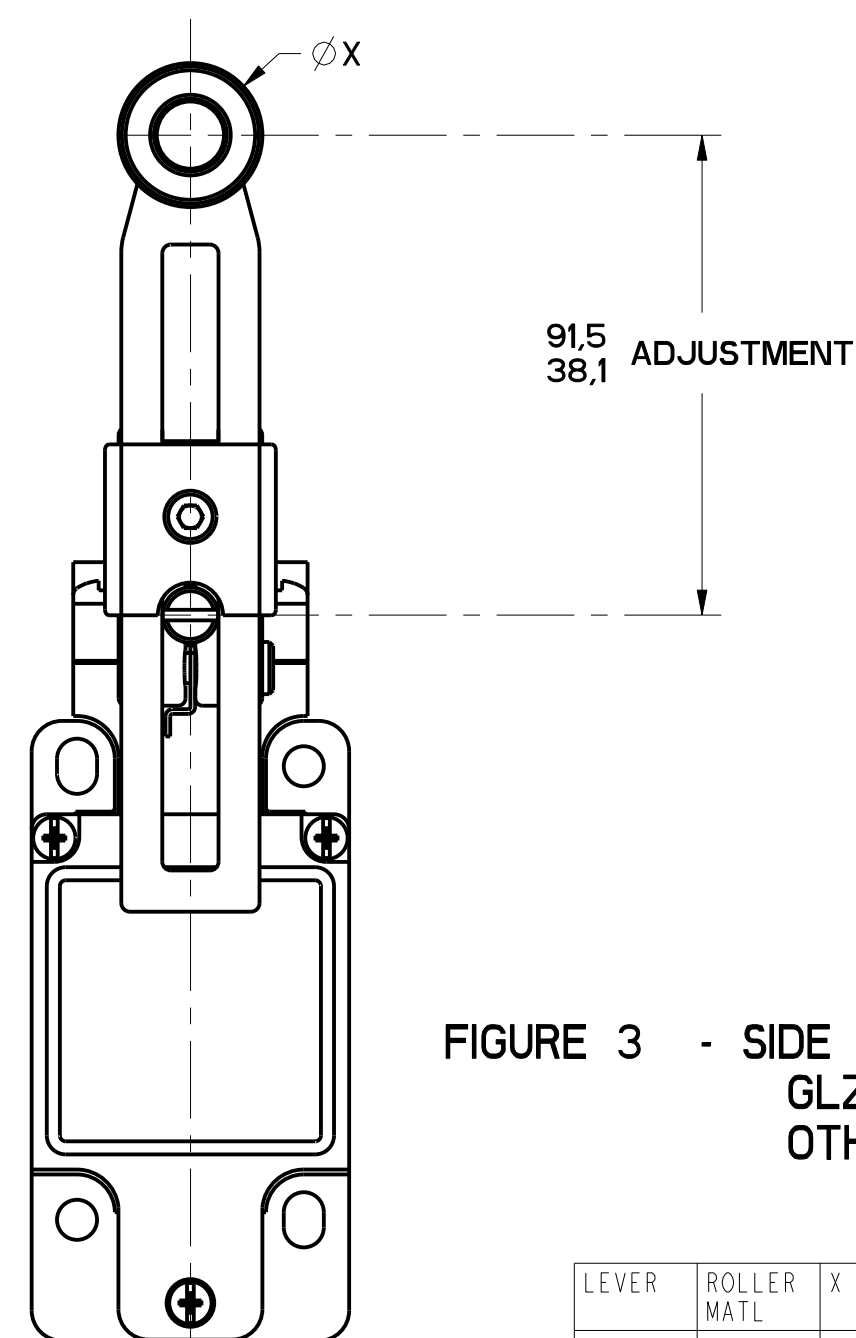


FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

| LEVER  | ROLLER MATL | X DIM       | Y DIM          | Z DIM          |
|--------|-------------|-------------|----------------|----------------|
| GLZ52A | NYLON       | 19.1<br>.75 | 65.9<br>2.59   | 6.4<br>.25     |
| GLZ52B | STEEL       | 19.1<br>.75 | 65.9<br>2.59   | 6.4<br>.25     |
| GLZ52D | NYLON       | 38.1<br>1.5 | 65.9<br>2.59   | 6.4<br>.25     |
| GLZ52E | NYLON       | 19.1<br>.75 | 79.37<br>3.125 | 33.07<br>1.300 |
| GLZ52W | RUBBER      | 40.0<br>1.5 | 71.5<br>2.81   | 12.7<br>.5     |
| GLZ52Y | RUBBER      | 50.9<br>2.0 | 71.5<br>2.81   | 12.7<br>.5     |

| CATALOG LISTING | BODY DIMENSIONS, FIGURE | HEAD DIMENSIONS, FIGURE | HEAD ACTUATION, FIGURE |
|-----------------|-------------------------|-------------------------|------------------------|
| GLB***          | I                       | N/A                     | N/A                    |
| GLG***          | I                       | N/A                     | N/A                    |
| GLJ***          | I                       | N/A                     | N/A                    |
| GLA***          | 1A                      | N/A                     | N/A                    |
| GLB***          | 1B                      | N/A                     | N/A                    |
| GLC***          | 1C                      | N/A                     | N/A                    |
| GLD***          | 1D                      | N/A                     | N/A                    |
| GL***A1*        | I                       | 8                       |                        |
| GL***A2*        | I                       | 3                       | 9                      |
| GL***A4*        | I                       | 2                       | 10                     |
| GL***A5*        | I                       |                         | 8                      |
| GL***B          | I                       | 4                       | 11                     |
| GL***C          | I                       | 5                       | 13A, 13B               |
| GL***D          | I                       | 6                       | 14A, 14B               |
| GL***E7A        | I                       | 7A                      | 12                     |
| GL***E7B        | I                       | 7                       | 12                     |
| GL***E7C        | I                       | 7E                      | 12                     |
| GL***E7D        | I                       | 7B                      | 12                     |
| GL***K8A        | I                       | 7C                      | 15                     |
| GL***K8B        | I                       | 7D                      | 15                     |
| GL***K8C        | I                       | 7                       | 15                     |

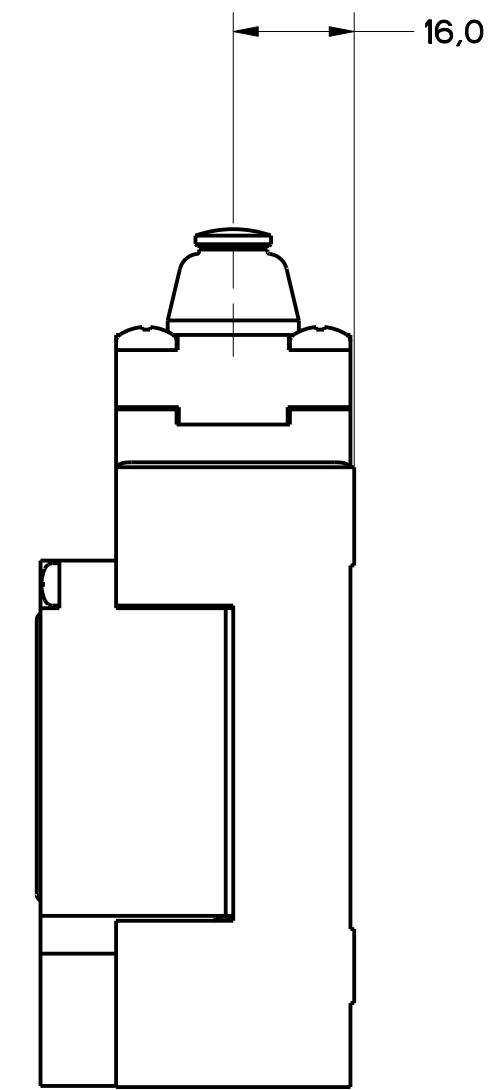
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SWITCH, ENCLOSED

CATALOG LISTING  
GL SERIES CHART 2

| THIRD ANGLE PROJECTION                                                                   |         |           |              |
|------------------------------------------------------------------------------------------|---------|-----------|--------------|
| SCALE FULL                                                                               |         |           |              |
| DO NOT SCALE PRINT                                                                       |         |           |              |
| TOLERANCES                                                                               |         |           |              |
| APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE: |         |           |              |
| NO PLACES                                                                                | INCHES  | 0.001     | 0.001        |
| ONE PLACE                                                                                | INCHES  | 0.01      | 0.01         |
| TWO PLACES                                                                               | INCHES  | 0.01      | 0.01         |
| THREE PLACES                                                                             | INCHES  | 0.001     | 0.001        |
| ANGLES                                                                                   | DEGREES | ±0.001    | ±0.001       |
| DESIGN UNITS                                                                             |         | SI METRIC | US CUSTOMARY |
| WEIGHT                                                                                   |         | KG        | LB           |

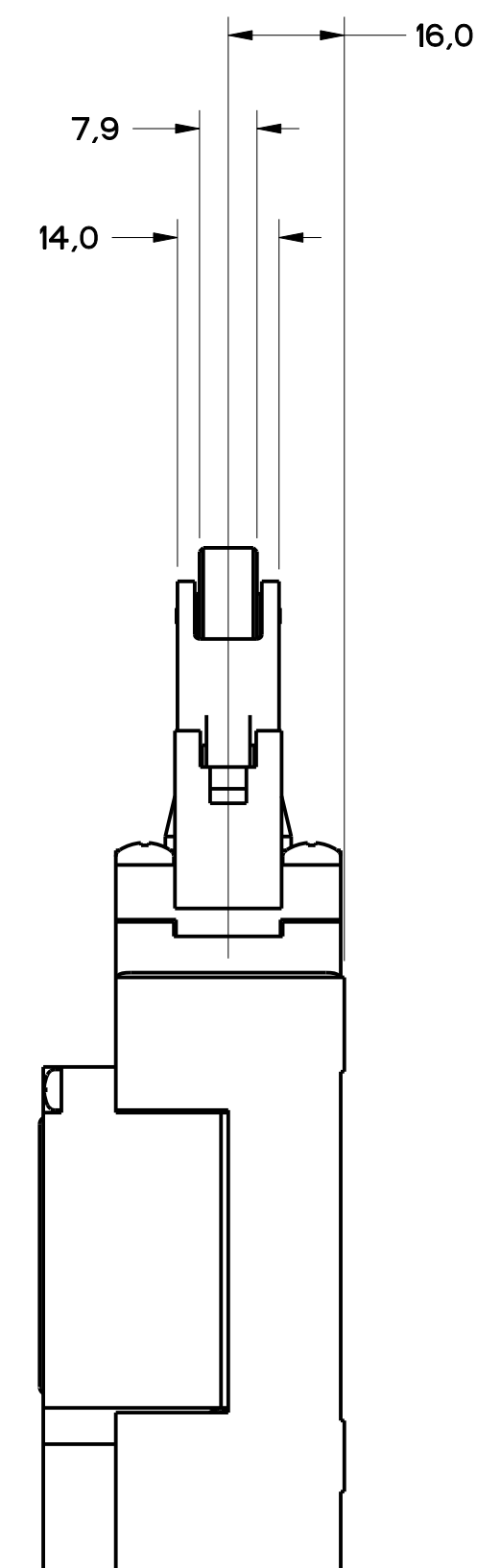


STEEL ROLLER

Ø 12,4

50,5

Technical drawing of a lamp head (Lampenkopf) showing a side view. The drawing includes two dimensions: 4,7 (width of the base) and 16,0 (width of the top section).



|                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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<tr> <td>71</td> <td>0.0015"</td> <td>71</td> <td>0.0015"</td> </tr> <tr> <td>72</td> <td>0.0015"</td> <td>72</td> <td>0.0015"</td> </tr> <tr> <td>73</td> <td>0.0015"</td> <td>73</td> <td>0.0015"</td> </tr> <tr> <td>74</td> <td>0.0015"</td> <td>74</td> <td>0.0015"</td> </tr> <tr> <td>75</td> <td>0.0015"</td> <td>75</td> <td>0.0015"</td> </tr> <tr> <td>76</td> <td>0.0015"</td> <td>76</td> <td>0.0015"</td> </tr> <tr> <td>77</td> <td>0.0015"</td> <td>77</td> <td>0.0015"</td> </tr> <tr> <td>78</td> <td>0.0015"</td> <td>78</td> <td>0.0015"</td> </tr> <tr> <td>79</td> <td>0.0015"</td> <td>79</td> <td>0.0015"</td> </tr> <tr> <td>80</td> <td>0.0015"</td> <td>80</td> <td>0.0015"</td> </tr> <tr> <td>81</td> <td>0.0015"</td> <td>81</td> <td>0.0015"</td> </tr> <tr> <td>82</td> <td>0.0015"</td> <td>82</td> <td>0.0015"</td> </tr> <tr> <td>83</td> <td>0.0015"</td> <td>83</td> <td>0.0015"</td> </tr> <tr> <td>84</td> <td>0.0015"</td> <td>84</td> <td>0.0015"</td> </tr> <tr> <td>85</td> <td>0.0015"</td> <td>85</td> <td>0.0015"</td> </tr> <tr> <td>86</td></tr></table> |         | DIM | TOL | DIM | TOL | 1 | 0.0015" | 1 | 0.0015" | 2 | 0.0015" | 2 | 0.0015" | 3 | 0.0015" | 3 | 0.0015" | 4 | 0.0015" | 4 | 0.0015" | 5 | 0.0015" | 5 | 0.0015" | 6 | 0.0015" | 6 | 0.0015" | 7 | 0.0015" | 7 | 0.0015" | 8 | 0.0015" | 8 | 0.0015" | 9 | 0.0015" | 9 | 0.0015" | 10 | 0.0015" | 10 | 0.0015" | 11 | 0.0015" | 11 | 0.0015" | 12 | 0.0015" | 12 | 0.0015" | 13 | 0.0015" | 13 | 0.0015" | 14 | 0.0015" | 14 | 0.0015" | 15 | 0.0015" | 15 | 0.0015" | 16 | 0.0015" | 16 | 0.0015" | 17 | 0.0015" | 17 | 0.0015" | 18 | 0.0015" | 18 | 0.0015" | 19 | 0.0015" | 19 | 0.0015" | 20 | 0.0015" | 20 | 0.0015" | 21 | 0.0015" | 21 | 0.0015" | 22 | 0.0015" | 22 | 0.0015" | 23 | 0.0015" | 23 | 0.0015" | 24 | 0.0015" | 24 | 0.0015" | 25 | 0.0015" | 25 | 0.0015" | 26 | 0.0015" | 26 | 0.0015" | 27 | 0.0015" | 27 | 0.0015" | 28 | 0.0015" | 28 | 0.0015" | 29 | 0.0015" | 29 | 0.0015" | 30 | 0.0015" | 30 | 0.0015" | 31 | 0.0015" | 31 | 0.0015" | 32 | 0.0015" | 32 | 0.0015" | 33 | 0.0015" | 33 | 0.0015" | 34 | 0.0015" | 34 | 0.0015" | 35 | 0.0015" | 35 | 0.0015" | 36 | 0.0015" | 36 | 0.0015" | 37 | 0.0015" | 37 | 0.0015" | 38 | 0.0015" | 38 | 0.0015" | 39 | 0.0015" | 39 | 0.0015" | 40 | 0.0015" | 40 | 0.0015" | 41 | 0.0015" | 41 | 0.0015" | 42 | 0.0015" | 42 | 0.0015" | 43 | 0.0015" | 43 | 0.0015" | 44 | 0.0015" | 44 | 0.0015" | 45 | 0.0015" | 45 | 0.0015" | 46 | 0.0015" | 46 | 0.0015" | 47 | 0.0015" | 47 | 0.0015" | 48 | 0.0015" | 48 | 0.0015" | 49 | 0.0015" | 49 | 0.0015" | 50 | 0.0015" | 50 | 0.0015" | 51 | 0.0015" | 51 | 0.0015" | 52 | 0.0015" | 52 | 0.0015" | 53 | 0.0015" | 53 | 0.0015" | 54 | 0.0015" | 54 | 0.0015" | 55 | 0.0015" | 55 | 0.0015" | 56 | 0.0015" | 56 | 0.0015" | 57 | 0.0015" | 57 | 0.0015" | 58 | 0.0015" | 58 | 0.0015" | 59 | 0.0015" | 59 | 0.0015" | 60 | 0.0015" | 60 | 0.0015" | 61 | 0.0015" | 61 | 0.0015" | 62 | 0.0015" | 62 | 0.0015" | 63 | 0.0015" | 63 | 0.0015" | 64 | 0.0015" | 64 | 0.0015" | 65 | 0.0015" | 65 | 0.0015" | 66 | 0.0015" | 66 | 0.0015" | 67 | 0.0015" | 67 | 0.0015" | 68 | 0.0015" | 68 | 0.0015" | 69 | 0.0015" | 69 | 0.0015" | 70 | 0.0015" | 70 | 0.0015" | 71 | 0.0015" | 71 | 0.0015" | 72 | 0.0015" | 72 | 0.0015" | 73 | 0.0015" | 73 | 0.0015" | 74 | 0.0015" | 74 | 0.0015" | 75 | 0.0015" | 75 | 0.0015" | 76 | 0.0015" | 76 | 0.0015" | 77 | 0.0015" | 77 | 0.0015" | 78 | 0.0015" | 78 | 0.0015" | 79 | 0.0015" | 79 | 0.0015" | 80 | 0.0015" | 80 | 0.0015" | 81 | 0.0015" | 81 | 0.0015" | 82 | 0.0015" | 82 | 0.0015" | 83 | 0.0015" | 83 | 0.0015" | 84 | 0.0015" | 84 | 0.0015" | 85 | 0.0015" | 85 | 0.0015" | 86 |
| DIM                                                                                                                                                                                 | TOL     | DIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 1                                                                                                                                                                                   | 0.0015" | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 2                                                                                                                                                                                   | 0.0015" | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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                                                                                                                                                   | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 4                                                                                                                                                                                   | 0.0015" | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 5                                                                                                                                                                                   | 0.0015" | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 6                                                                                                                                                                                   | 0.0015" | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 16                                                                                                                                                                                  | 0.0015" | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 17                                                                                                                                                                                  | 0.0015" | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 18                                                                                                                                                                                  | 0.0015" | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 19                                                                                                                                                                                  | 0.0015" | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 20                                                                                                                                                                                  | 0.0015" | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 21                                                                                                                                                                                  | 0.0015" | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 22                                                                                                                                                                                  | 0.0015" | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 26                                                                                                                                                                                  | 0.0015" | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 27                                                                                                                                                                                  | 0.0015" | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 28                                                                                                                                                                                  | 0.0015" | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 29                                                                                                                                                                                  | 0.0015" | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 33                                                                                                                                                                                  | 0.0015" | 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 34                                                                                                                                                                                  | 0.0015" | 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 35                                                                                                                                                                                  | 0.0015" | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 36                                                                                                                                                                                  | 0.0015" | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 37                                                                                                                                                                                  | 0.0015" | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 38                                                                                                                                                                                  | 0.0015" | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 39                                                                                                                                                                                  | 0.0015" | 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 40                                                                                                                                                                                  | 0.0015" | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 41                                                                                                                                                                                  | 0.0015" | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 42                                                                                                                                                                                  | 0.0015" | 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 43                                                                                                                                                                                  | 0.0015" | 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 44                                                                                                                                                                                  | 0.0015" | 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 45                                                                                                                                                                                  | 0.0015" | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 46                                                                                                                                                                                  | 0.0015" | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 47                                                                                                                                                                                  | 0.0015" | 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 48                                                                                                                                                                                  | 0.0015" | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 49                                                                                                                                                                                  | 0.0015" | 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 50                                                                                                                                                                                  | 0.0015" | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 51                                                                                                                                                                                  | 0.0015" | 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 52                                                                                                                                                                                  | 0.0015" | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 53                                                                                                                                                                                  | 0.0015" | 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 54                                                                                                                                                                                  | 0.0015" | 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 55                                                                                                                                                                                  | 0.0015" | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 56                                                                                                                                                                                  | 0.0015" | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 57                                                                                                                                                                                  | 0.0015" | 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 58                                                                                                                                                                                  | 0.0015" | 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 59                                                                                                                                                                                  | 0.0015" | 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 60                                                                                                                                                                                  | 0.0015" | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 61                                                                                                                                                                                  | 0.0015" | 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 62                                                                                                                                                                                  | 0.0015" | 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 63                                                                                                                                                                                  | 0.0015" | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 64                                                                                                                                                                                  | 0.0015" | 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 65                                                                                                                                                                                  | 0.0015" | 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 66                                                                                                                                                                                  | 0.0015" | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 67                                                                                                                                                                                  | 0.0015" | 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 68                                                                                                                                                                                  | 0.0015" | 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 69                                                                                                                                                                                  | 0.0015" | 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 70                                                                                                                                                                                  | 0.0015" | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 71                                                                                                                                                                                  | 0.0015" | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 72                                                                                                                                                                                  | 0.0015" | 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 73                                                                                                                                                                                  | 0.0015" | 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 74                                                                                                                                                                                  | 0.0015" | 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 75                                                                                                                                                                                  | 0.0015" | 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 76                                                                                                                                                                                  | 0.0015" | 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 77                                                                                                                                                                                  | 0.0015" | 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 78                                                                                                                                                                                  | 0.0015" | 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 83                                                                                                                                                                                  | 0.0015" | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 84                                                                                                                                                                                  | 0.0015" | 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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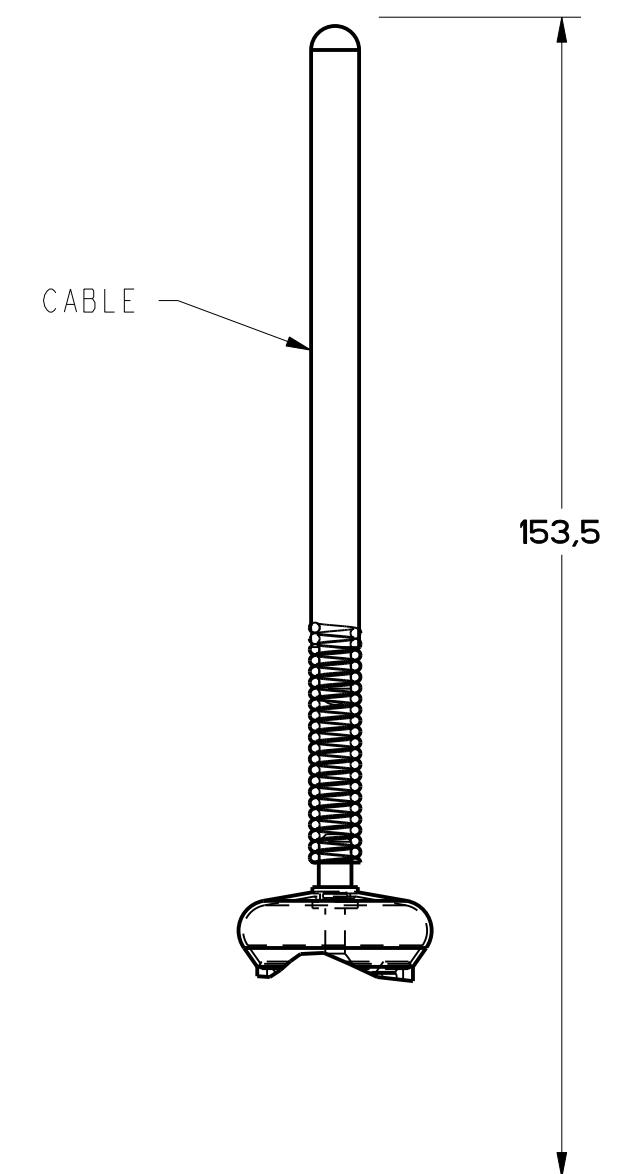
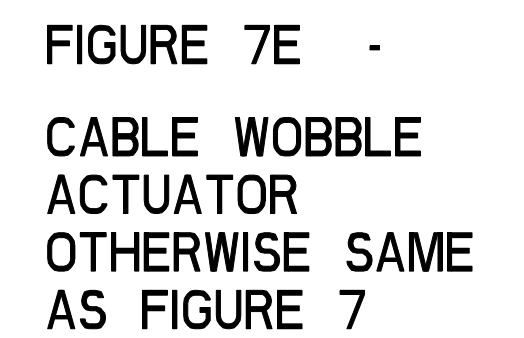
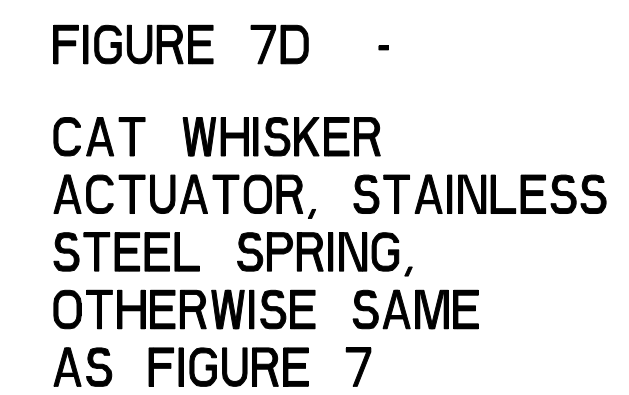
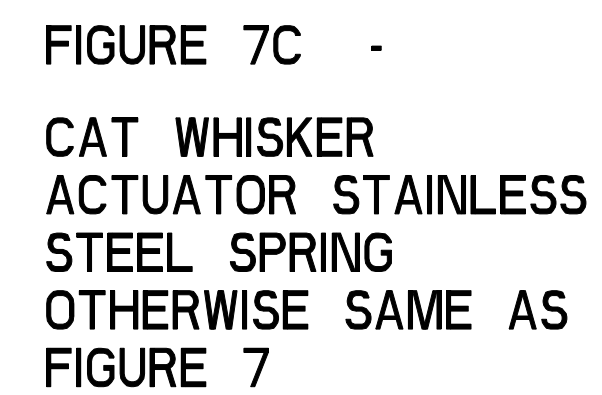
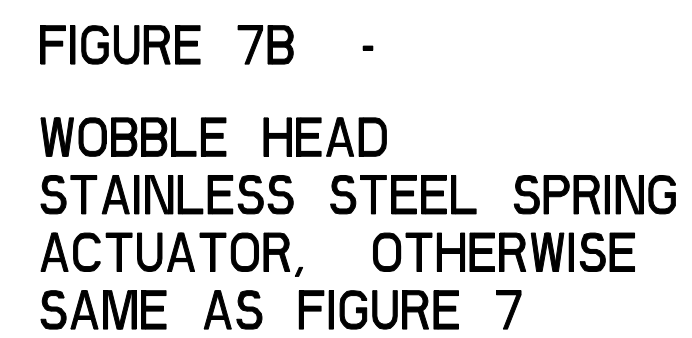
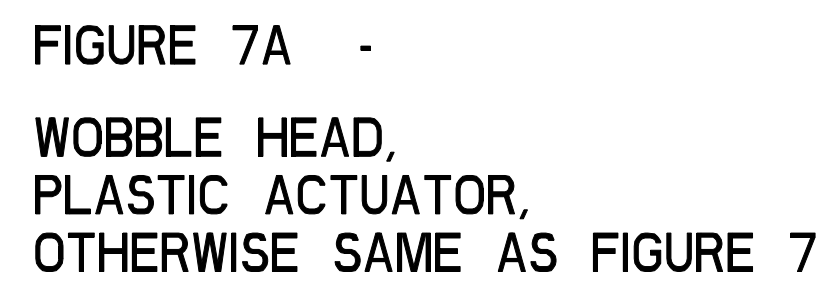
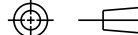


FIGURE 7 - WOBBLE HEAD, AND CAT WHISKER HEAD  
COIL ACTUATOR,  
OTHERWISE REFER TO  
FIGURE 1

|                                                                                                                                                                                     |                  |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|
| THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH. |                  |                   |
| FED. MFG. CODE 91929                                                                                                                                                                | SWITCH, ENCLOSED | CATALOG LISTING   |
| <b>MICRO SWITCH</b><br>a Honeywell Division                                                                                                                                         |                  | HL SERIES CHART 2 |

|                                                                                             |             |                                                         |          |
|---------------------------------------------------------------------------------------------|-------------|---------------------------------------------------------|----------|
| <b>THIRD ANGLE PROJECTION</b>                                                               |             |                                                         |          |
|        |             |                                                         |          |
| <b>SCALE</b>                                                                                |             | <b>FULL</b>                                             |          |
| <b>DO NOT SCALE PRINT</b>                                                                   |             |                                                         |          |
| <b>TOLERANCES</b>                                                                           |             |                                                         |          |
| APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR<br>REFERENCE. UNLESS NOTED, TOLERANCES ARE: |             |                                                         |          |
| DIM.                                                                                        | TOL.        | DIM.                                                    | TOL.     |
| mm                                                                                          | mil/1.27    | mm/1.27                                                 | mil/1.27 |
| NO PLACES                                                                                   | 1/64        | 1.0                                                     | 0.010    |
| ONE PLACE                                                                                   | 0.010       | 1.1X                                                    | 0.0010   |
| TWO PLACES                                                                                  | 0.015/0.006 | 1.2X                                                    | 0.00010  |
| THREE PLACES                                                                                |             | 1.3X                                                    | 0.000010 |
| ANGLES                                                                                      |             |                                                         |          |
| <b>±</b><br>DECIMAL                                                                         |             |                                                         |          |
| <b>DESIGN UNITS</b>                                                                         |             | <input checked="" type="checkbox"/> <b>US CUSTOMARY</b> |          |



| CAM ACTUATION PER EN50041, FIGURES 8 AND 9  |                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                           |                                                                                                                            |                                                                                                                                   |                                                                                                                                   |                               |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| CATALOG LISTING                                                                                                                | CONTACT BLOCK DIAGRAM                                                                                                                          | <div><div></div> NOMINAL TRAVELS AND RELATED TERMINALS</div> <div><div></div> CONTACT CLOSED, <div></div> CONTACT OPEN, <div></div> CONTACT CLOSED</div> <div>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5</div> <div>DIMENSIONS IN mm</div> | MAXIMUM OPERATING FORCE <div> LB</div> | MAXIMUM DISCONNECT FORCE <div> LB</div> | MAX OPERATE VEL <div> in/s</div> <div>**</div> | MIN OPERATE VEL <div> in/s</div> <div>**</div> | MAX OPERATE FREQUENCY OPS/MIN |
| GL**02A*                                                                                                                       | <div>Snap - Action Contacts Single Pole</div> <div></div> | <div><div><div>02056**</div><div>21-2213-14</div><div>&gt;&lt;</div></div><div>12 DIFFERENTIAL TRAVEL</div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | <div><div>9.72.2</div></div>                                                                                              | <div><div>11.42.6</div></div>                                                                                              | <div><div>.8533.5</div></div>                                                                                                     | <div><div>8.5.33</div></div>                                                                                                      | 250                           |

|                                                                                                                                                                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|-----|-------------|-----------|-----|-------------|------|-------------|------------|-------|-------------|------|-------------|--------------|--|--|--|--|--------|--|---|--|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|--------------|--------------|-------------------------------------|
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| QW                                                                                                                                                                                  | TOL                                 | QW                                                                                                                                                                                                                                                                                                                                                                                                                              | TOL  |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| dim                                                                                                                                                                                 | dim                                 | dim                                                                                                                                                                                                                                                                                                                                                                                                                             | dim  |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
|                                                                                                                                                                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| FED. MFG. CODE 91929                                                                                                                                                                |                                     | CATALOG LISTING                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| <b>MICRO SWITCH</b><br>a Honeywell Division                                                                                                                                         |                                     | <b>SWITCH, ENCLOSED</b>                                                                                                                                                                                                                                                                                                                                                                                                         |      | <b>GL SERIES CHART 2</b>                                                                                                                                                     |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
|                                                                                                                                                                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
|                                                                                                                                                                                     |                                     | <table><tr><td>NO PLACES</td><td>X</td><td>1/2" (4)</td><td>1.4</td><td>0.85 (0.15)</td></tr><tr><td>ONE PLACE</td><td>X X</td><td>0.47 (0.16)</td><td>1.1X</td><td>0.50 (0.05)</td></tr><tr><td>TWO PLACES</td><td>X X X</td><td>0.15 (0.06)</td><td>1.1X</td><td>0.15 (0.05)</td></tr><tr><td>THREE PLACES</td><td></td><td></td><td></td><td></td></tr><tr><td>ANGLES</td><td></td><td>±</td><td></td><td></td></tr></table> |      | NO PLACES                                                                                                                                                                    | X   | 1/2" (4)    | 1.4 | 0.85 (0.15) | ONE PLACE | X X | 0.47 (0.16) | 1.1X | 0.50 (0.05) | TWO PLACES | X X X | 0.15 (0.06) | 1.1X | 0.15 (0.05) | THREE PLACES |  |  |  |  | ANGLES |  | ± |  |  | <table><tr><td>SI METRIC</td><td>US CUSTOMARY</td></tr><tr><td>DESIGN UNITS</td><td><input checked="" type="checkbox"/></td></tr></table> |  | SI METRIC | US CUSTOMARY | DESIGN UNITS | <input checked="" type="checkbox"/> |
|                                                                                                                                                                                     |                                     | NO PLACES                                                                                                                                                                                                                                                                                                                                                                                                                       | X    | 1/2" (4)                                                                                                                                                                     | 1.4 | 0.85 (0.15) |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| ONE PLACE                                                                                                                                                                           | X X                                 | 0.47 (0.16)                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.1X | 0.50 (0.05)                                                                                                                                                                  |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| TWO PLACES                                                                                                                                                                          | X X X                               | 0.15 (0.06)                                                                                                                                                                                                                                                                                                                                                                                                                     | 1.1X | 0.15 (0.05)                                                                                                                                                                  |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| THREE PLACES                                                                                                                                                                        |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| ANGLES                                                                                                                                                                              |                                     | ±                                                                                                                                                                                                                                                                                                                                                                                                                               |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| SI METRIC                                                                                                                                                                           | US CUSTOMARY                        |                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
| DESIGN UNITS                                                                                                                                                                        | <input checked="" type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |
|                                                                                                                                                                                     |                                     | WEIGHT                                                                                                                                                                                                                                                                                                                                                                                                                          |      |                                                                                                                                                                              |     |             |     |             |           |     |             |      |             |            |       |             |      |             |              |  |  |  |  |        |  |   |  |  |                                                                                                                                           |  |           |              |              |                                     |

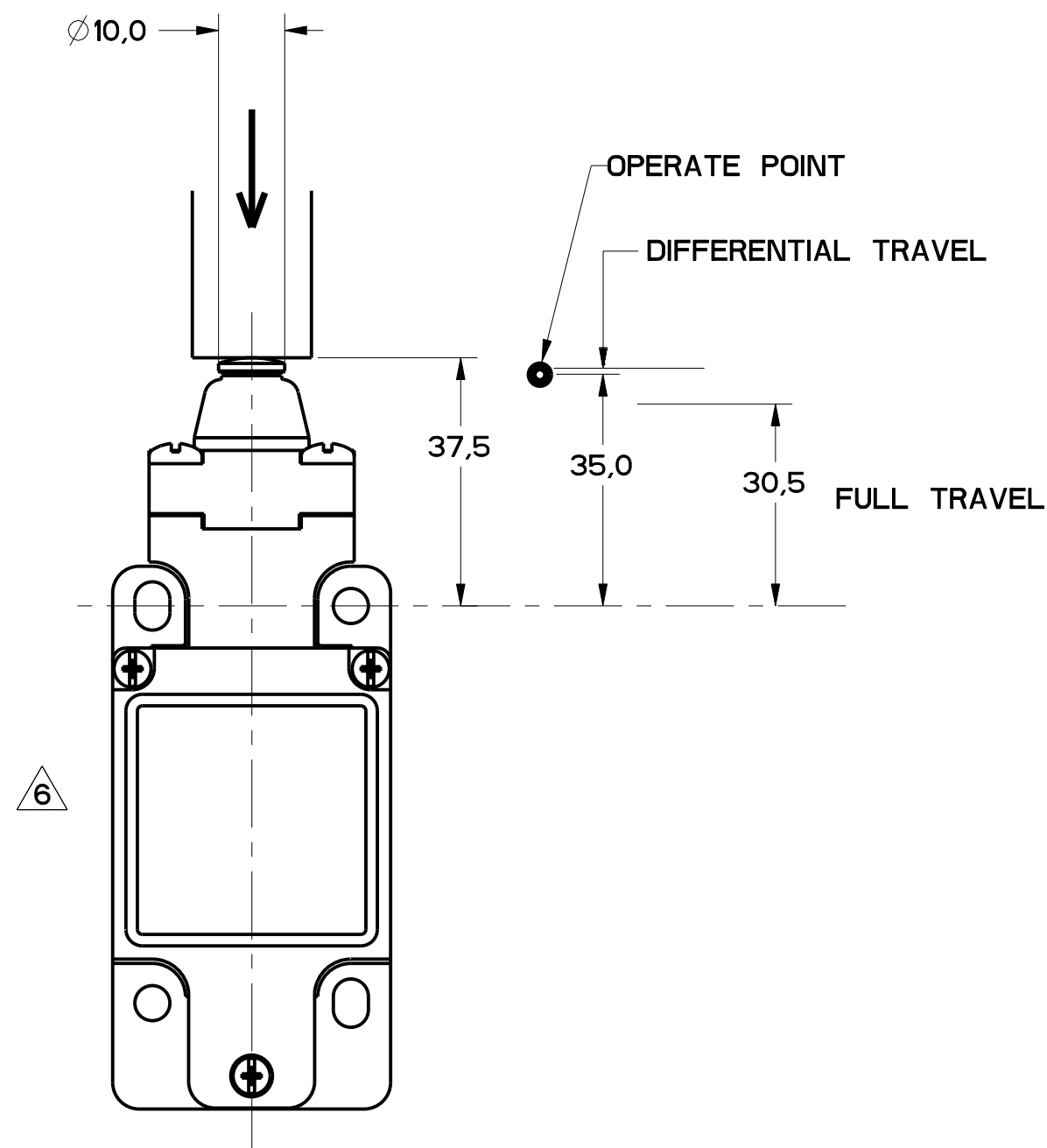


FIGURE 11

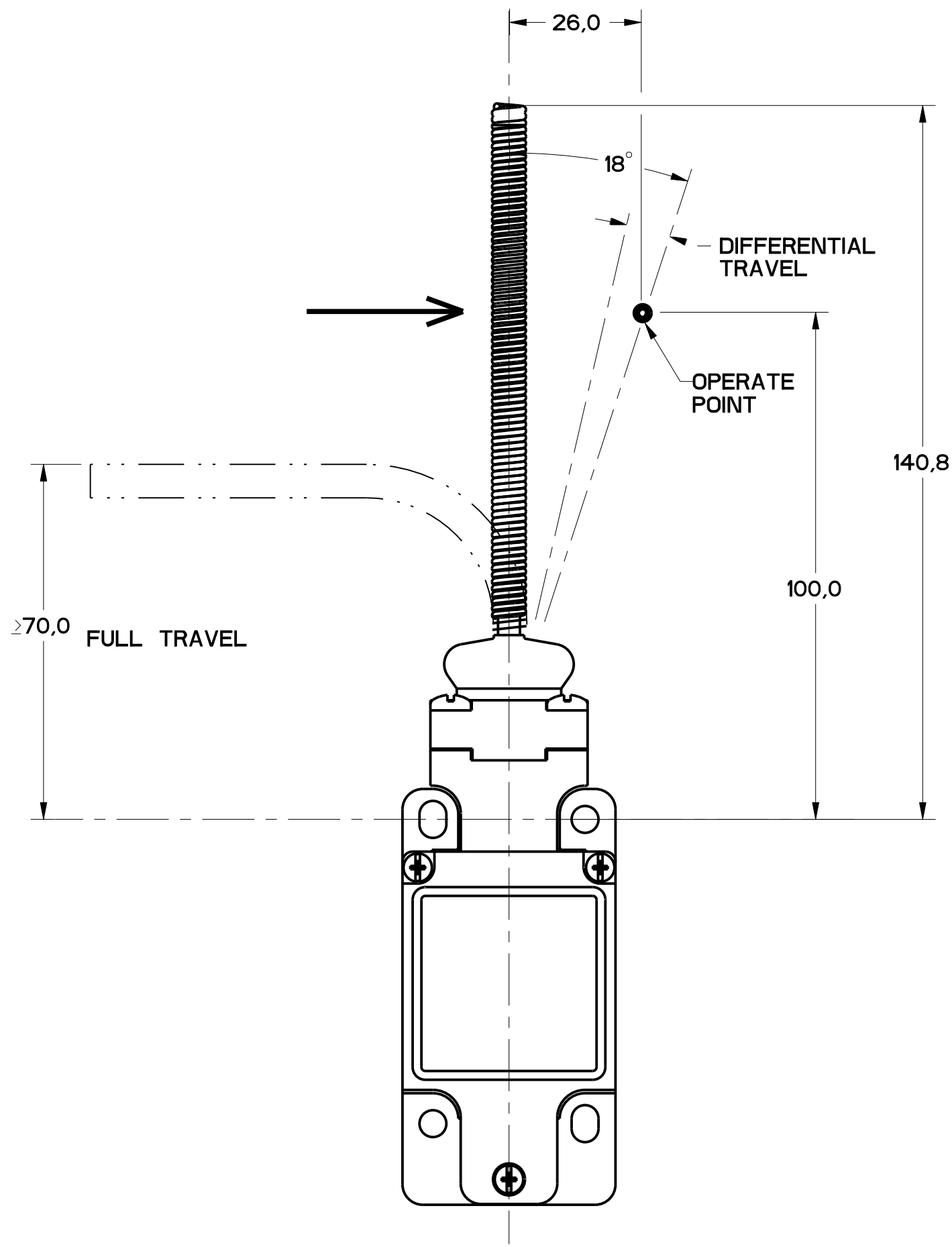


FIGURE 12

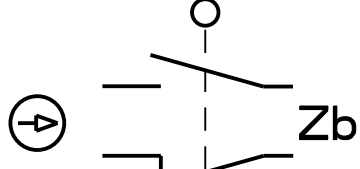
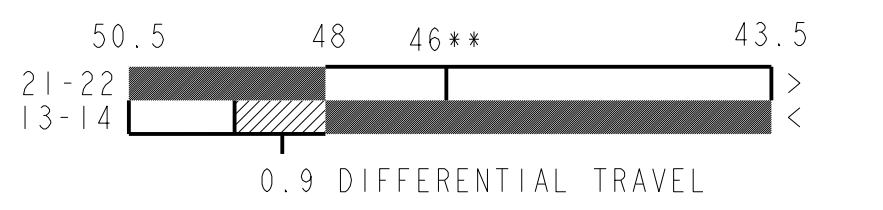
| FIGURES 11, PIN PLUNGER HEAD, LINEAR ACTUATION |                                           |                                                                                                                                                  |                                    |                                     |                                |                                |
|------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|
| CATALOG LISTING                                | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/S | MIN OPERATE VEL<br>M/S<br>in/S |
| GL**02B                                        | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>0.9 DIFFERENTIAL TRAVEL                                                                                                                      | 16<br>3.6                          | 27<br>6.0                           | 0.1<br>3.9                     | 1.0<br>.04                     |

| FIGURE 12, WOBBLE HEAD, ANGULAR ACTUATION |                                           |                                                                                                                                                  |                                        |                                         |                      |                                  |
|-------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------|----------------------|----------------------------------|
| CATALOG LISTING                           | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING TORQUE<br>m<br>LB/in | MAXIMUM DISCONNECT TORQUE<br>m<br>LB/in | MAX OPERATE DEGREE/S | MIN OPERATE VELOCITY<br>DEGREE/S |
| GL**02E                                   | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>8° DIFFERENTIAL TRAVEL                                                                                                                       | 0.2<br>1.8                             | N/A                                     | 360                  | 8                                |

| FIGURE 12, WOBBLE HEAD, SIDE ACTUATION AT 100mm |                                           |                                                                                                                                                  |                                    |                                     |                                |                                |
|-------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|
| CATALOG LISTING                                 | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/S | MIN OPERATE VEL<br>M/S<br>in/S |
| GL**02E                                         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>12 DIFFERENTIAL TRAVEL                                                                                                                       | 2.5<br>0.6                         | N/A                                 | .5<br>19.7                     | 11<br>.43                      |

| REVISIONS |    |       |
|-----------|----|-------|
| A         | CO | 78529 |
| B         | CS | 81101 |
| C         | CO | 93188 |
| D         | CO | 93188 |
| E         | CO | 93188 |
| F         | CO | 93188 |
| G         | CO | 93188 |
| H         | CO | 93188 |
| I         | CO | 93188 |
| J         | CO | 93188 |
| K         | CO | 93188 |
| L         | CO | 93188 |
| M         | CO | 93188 |
| N         | CO | 93188 |
| O         | CO | 93188 |
| P         | CO | 93188 |
| Q         | CO | 93188 |
| R         | CO | 93188 |
| S         | CO | 93188 |
| T         | CO | 93188 |
| U         | CO | 93188 |
| V         | CO | 93188 |
| W         | CO | 93188 |
| X         | CO | 93188 |
| Y         | CO | 93188 |
| Z         | CO | 93188 |

FIGURE 13A, ROLLER PLUNGER HEAD, PIN ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                                                                                                        | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/s | MIN OPERATE VEL<br>M/S<br>in/s | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02C         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>0.9 DIFFERENTIAL TRAVEL                                   | 16<br>3.6                          | 27<br>6.0                           | 0.1<br>3.9                     | 1.0<br>.04                     | 250                              |

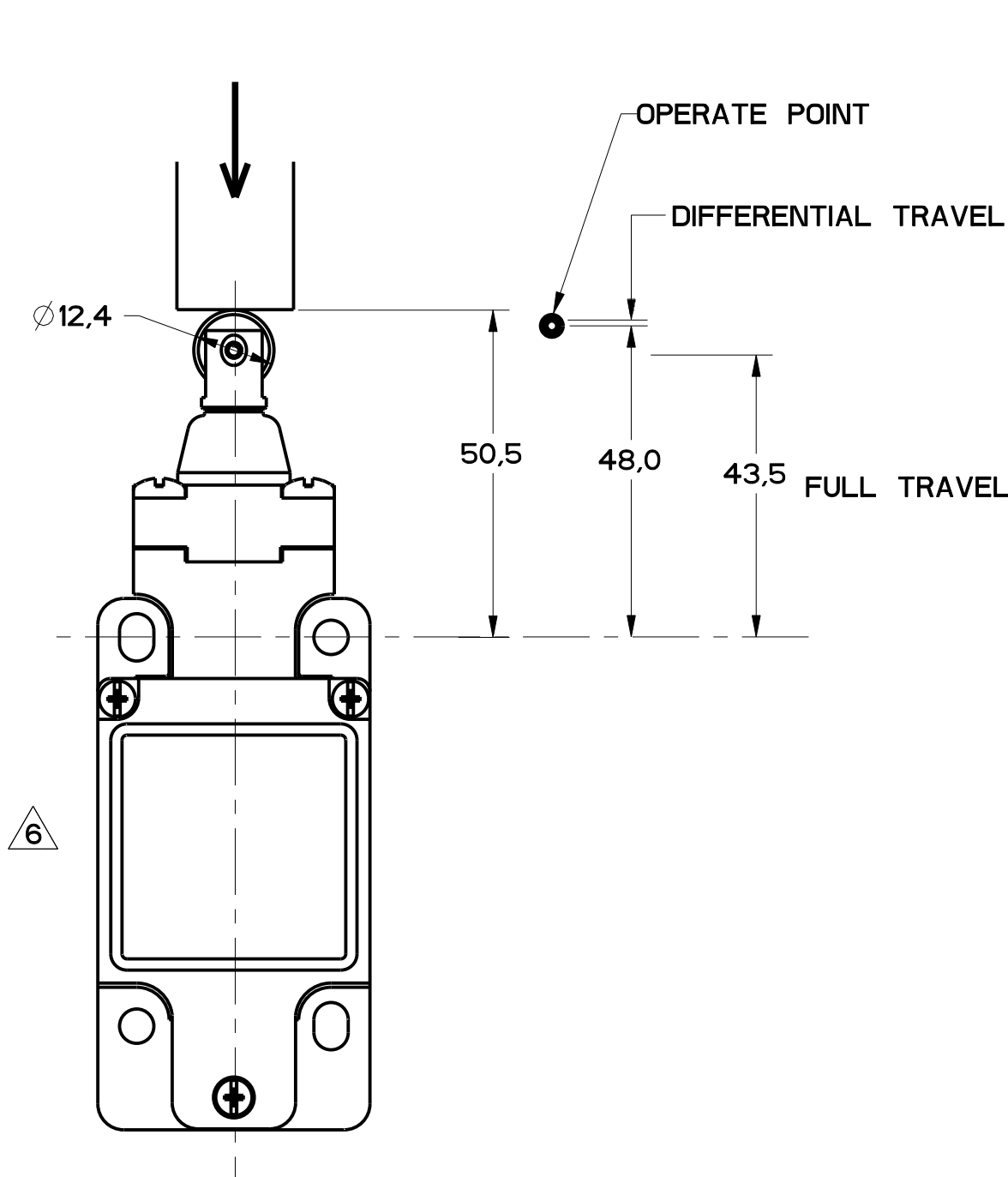


FIGURE 13A

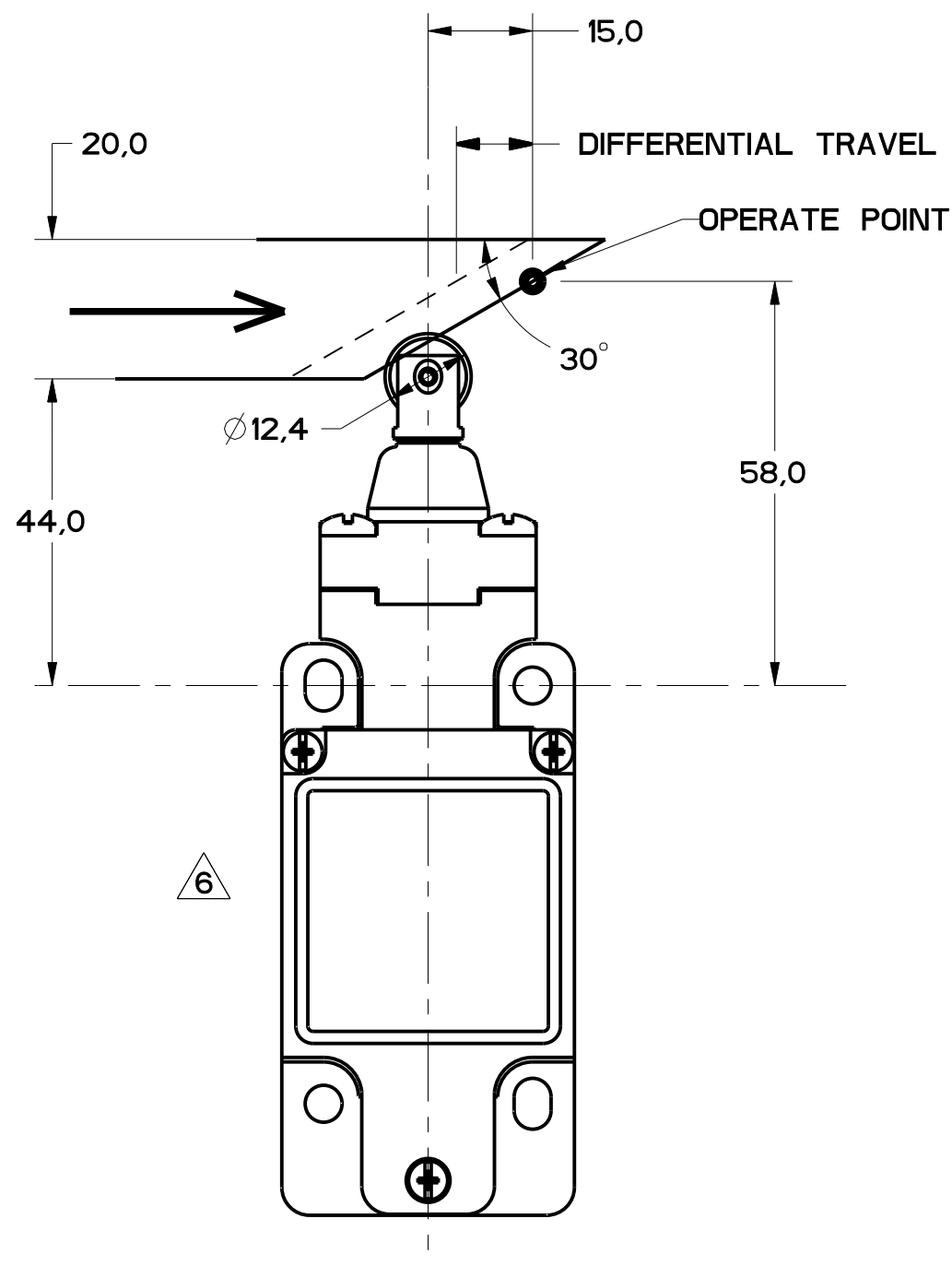
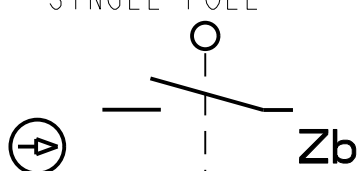
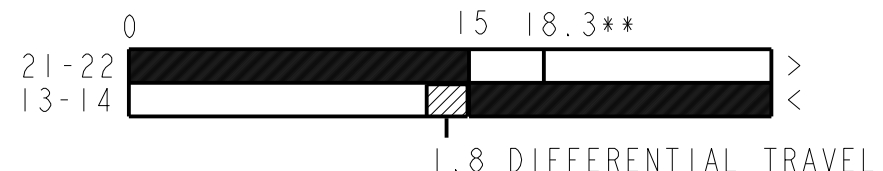
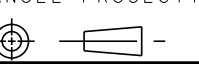


FIGURE 13B

FIGURE 13B, TOP ROLLER PLUNGER HEAD, CAM ACTUATION PER EN50041

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                                                                                                          | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/s | MIN OPERATE VEL<br>M/S<br>in/s | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02C         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>1.8 DIFFERENTIAL TRAVEL                                 | 9.3<br>2.1                         | 15.6<br>3.5                         | 0.17<br>6.7                    | 1.7<br>.067                    | 250                              |

| THIRD ANGLE PROJECTION                                                                                 |           |              |      |
|--------------------------------------------------------------------------------------------------------|-----------|--------------|------|
|                   |           |              |      |
| SCALE FULL                                                                                             |           |              |      |
| DO NOT SCALE PRINT                                                                                     |           |              |      |
| TOLERANCES<br>APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE: |           |              |      |
| NO PLACES                                                                                              | 1/16      | 1/32         | 1/64 |
| ONE PLACE                                                                                              | 1/16      | 1/32         | 1/64 |
| TWO PLACES                                                                                             | 1/16      | 1/32         | 1/64 |
| THREE PLACES                                                                                           | 1/16      | 1/32         | 1/64 |
| ANGLES                                                                                                 | 1/16      | 1/32         | 1/64 |
| DESIGN UNITS                                                                                           | SI METRIC | US CUSTOMARY |      |
| WEIGHT                                                                                                 |           |              |      |

|                                                                                                                                                                                     |  |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|
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| FED. MFG. CODE 91929                                                                                                                                                                |  | GL SERIES CHART 2 |  |
| MICRO SWITCH<br>a Honeywell Division                                                                                                                                                |  | SWITCH, ENCLOSED  |  |
|                                                                                                                                                                                     |  |                   |  |

| REVISIONS |         |          |
|-----------|---------|----------|
| A         | 1       | 180292   |
| B         | 1       | 01       |
| C         | 20      | SEP 94   |
| D         | CO      | 93789    |
| E         | REV     | 200788   |
| F         | 0000401 |          |
| G         | 011     | 2 JUN 93 |
| H         | 0002986 |          |
| I         | 20      | JAN 94   |
| J         | 0017532 |          |
| K         | 0000005 |          |

FIGURE 14A, TOP ROLLER LEVER HEAD WITH PIN ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED,  CONTACT OPEN  CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/S | MIN OPERATE VEL<br>M/S<br>in/S | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02D         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>1.7 DIFFERENTIAL TRAVEL                                                                                                                       | $\frac{9.5}{2.1}$                  | $\frac{12}{2.7}$                    | $\frac{0.17}{6.7}$             | $\frac{1.7}{.067}$             | 250                              |

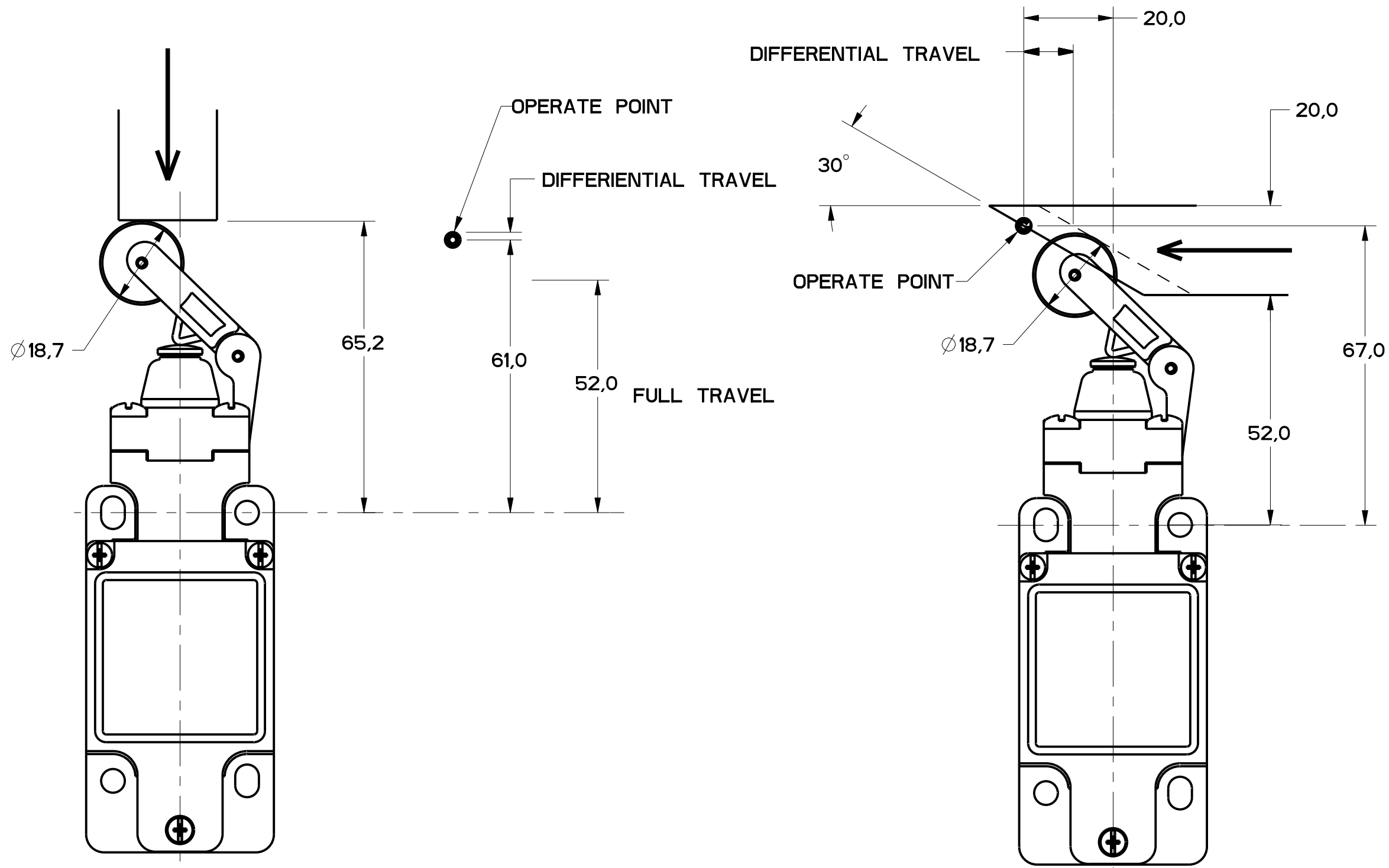
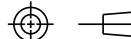


FIGURE 14A

FIGURE 14B

FIGURE 14B, TOP ROLLER LEVER HEAD WITH CAM ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED,  CONTACT OPEN  CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/S | MIN OPERATE VEL<br>M/S<br>in/S | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02D         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>4.1 DIFFERENTIAL TRAVEL                                                                                                                       | $\frac{5.5}{1.2}$                  | $\frac{7.0}{1.6}$                   | $\frac{0.29}{11.4}$            | $\frac{2.9}{.11}$              | 250                              |

| THIRD ANGLE PROJECTION                                                                   |       |             |                          |               |
|------------------------------------------------------------------------------------------|-------|-------------|--------------------------|---------------|
|     |       |             |                          |               |
| SCALE FULL                                                                               |       |             |                          |               |
| DO NOT SCALE PRINT                                                                       |       |             |                          |               |
| TOLERANCES                                                                               |       |             |                          |               |
| APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE: |       |             |                          |               |
|                                                                                          | DIM   | TOL         | DIM                      | TOL           |
|                                                                                          | mm    | mm/10       |                          | mm/10         |
| NO PLACES                                                                                |       |             |                          |               |
| ONE PLACE                                                                                | X     | 1/100       | X                        | 0.01          |
| TWO PLACES                                                                               | X,XX  | 0.01/0.05   | X,XX                     | 0.001/0.005   |
| THREE PLACES                                                                             | X,XXX | 0.001/0.005 | X,XXX                    | 0.0001/0.0005 |
| ANGLES                                                                                   |       | ±2°         |                          |               |
| DESIGN UNITS                                                                             |       | SI METRIC   | US CUSTOMARY             |               |
| <input checked="" type="checkbox"/>                                                      |       |             | <input type="checkbox"/> |               |
| WEIGHT                                                                                   |       |             |                          |               |

|                                                                                                                                                                                     |  |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|
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| FED. MFG. CODE 91929                                                                                                                                                                |  | GL SERIES CHART 2 |  |
| MICRO SWITCH<br>a Honeywell Division                                                                                                                                                |  | SWITCH, ENCLOSED  |  |



| CATALOG LISTING | CONTACT BLOCK DIAGRAM                     | <div> <div></div> <div>NOMINAL TRAVELS AND RELATED TERMINALS</div> <div> <div></div>CONTACT CLOSED, <div></div>CONTACT OPEN, <div></div>CONTACT CLOSED</div> <div></div>DIFFERENTIAL TRAVEL </div> | <div> <div></div> <div>MAXIMUM OPERATING TORQUE</div> <div> <div></div> <div>N-m</div> <div>LB-IN</div> </div> </div> | <div> <div></div> <div>MAXIMUM DISCONNECT TORQUE</div> <div> <div></div> <div>N-m</div> <div>LB-IN</div> </div> </div> | <div> <div></div> <div>MAX OPERATE DEGREE/S</div> </div> | <div> <div></div> <div>MIN OPERATE VELOCITY DEGREE/S</div> </div> | <div> <div></div> <div>MAX OPERATE RATE CYCLES/MIN</div> </div> |
|-----------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------|
| GL**02K         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> |                                                                                                                                                                                                    | <div> <div></div> <div>0.1</div> <div>9</div> </div>                                                                  | N/A                                                                                                                    | 360                                                      | 8                                                                 | 100                                                             |

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                                      | <div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div></div> </div> </div> <div> <div>NOMINAL TRAVELS AND RELATED TERMINALS</div> <div>CONTACT CLOSED,    CONTACT OPEN    - CONTACT CLOSED</div> <div>DIFFERENTIAL TRAVEL</div> </div> | <div> <div>MAXIMUM OPERATING FORCE</div> <div><math>\frac{N}{LB}</math></div> </div> | <div> <div>MAXIMUM DISCONNECT FORCE</div> <div><math>\frac{N}{LB}</math></div> </div> | <div> <div>MAX OPERATE VEL</div> <div><math>\frac{M/S}{in/S}</math></div> </div> | <div> <div>MIN OPERATE VEL</div> <div><math>\frac{mm/S}{in/S}</math></div> </div> | <div> <div>MAX OPERATE FREQUENCY</div> <div>OPS/MIN</div> </div> |
|-----------------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------|
| GL**02K         | <div> <div>SNAP - ACTION CONTACTS SINGLE POLE</div> </div> | <div> <div> <div> <div>21-22</div> <div>13-14</div> </div> <div> <div>26</div> <div>12 DIFFERENTIAL TRAVEL</div> </div> <div> <div>&gt;</div> <div>&lt;</div> </div> </div> </div>                                                                                                      | <div> <div><math>\frac{1.3}{.3}</math></div> </div>                                  | N/A                                                                                   | <div> <div><math>\frac{.5}{19.7}</math></div> </div>                             | <div> <div><math>\frac{.11}{.43}</math></div> </div>                              | 100                                                              |

|                                                                                                                                                                                     |                  |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-------------------|
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| FED. MFG. CODE 91929                                                                                                                                                                | SWITCH, ENCLOSED | CATALOG LISTING   |
| <b>MICRO SWITCH</b><br>a Honeywell Division                                                                                                                                         |                  | GL SERIES CHART 2 |

GL SERIES CHART 2

|                                                                                          |            |                                                                                       |                          |             |
|------------------------------------------------------------------------------------------|------------|---------------------------------------------------------------------------------------|--------------------------|-------------|
| THIRD ANGLE PROJECTION                                                                   |            |                                                                                       |                          |             |
|     |            |  |                          |             |
| SCALE                                                                                    |            | FULL                                                                                  |                          |             |
| DO NOT SCALE PRINT                                                                       |            |                                                                                       |                          |             |
| TOLERANCES                                                                               |            |                                                                                       |                          |             |
| APPLY TO DESIGN UNITS, CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE: |            |                                                                                       |                          |             |
|                                                                                          | DIM.<br>mm | TOL.<br>mm                                                                            | DIM.<br>mm               | TOL.<br>mm  |
| NO PLACES                                                                                | 0          | 0.15/0.30                                                                             | 0                        | 0.81/0.03   |
| ONE PLACE                                                                                | 0.1        | 0.15/0.010                                                                            | 0.1                      | 0.100/0.010 |
| TWO PLACES                                                                               | 0.01       | 0.15/0.005                                                                            | 0.01                     | 0.151/0.005 |
| THREE PLACES                                                                             | 0.001      | 0.15/0.001                                                                            | 0.001                    | 0.151/0.001 |
| ANGLES                                                                                   | ± 2        |                                                                                       |                          |             |
|                                                                                          | SI METRIC  |                                                                                       | US CUSTOMARY             |             |
| DESIGN UNITS                                                                             |            | <input checked="" type="checkbox"/>                                                   | <input type="checkbox"/> |             |
| WELDING                                                                                  |            |                                                                                       |                          |             |



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**Телефон:** +7 812 627 14 35

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**Адрес:** 198099, Санкт-Петербург,  
Промышленная ул, дом № 19, литера Н,  
помещение 100-Н Офис 331