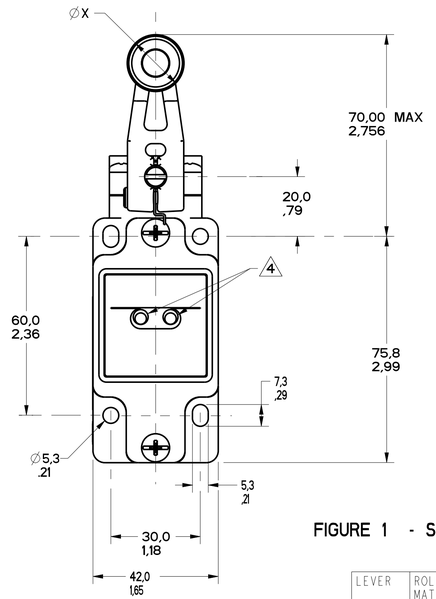
# SIDE ROTARY



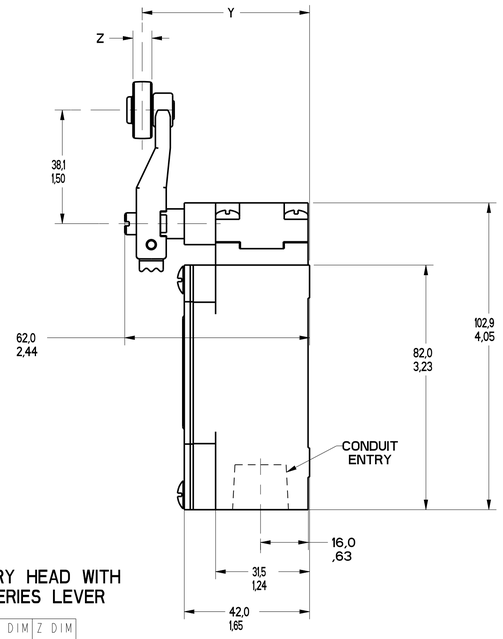
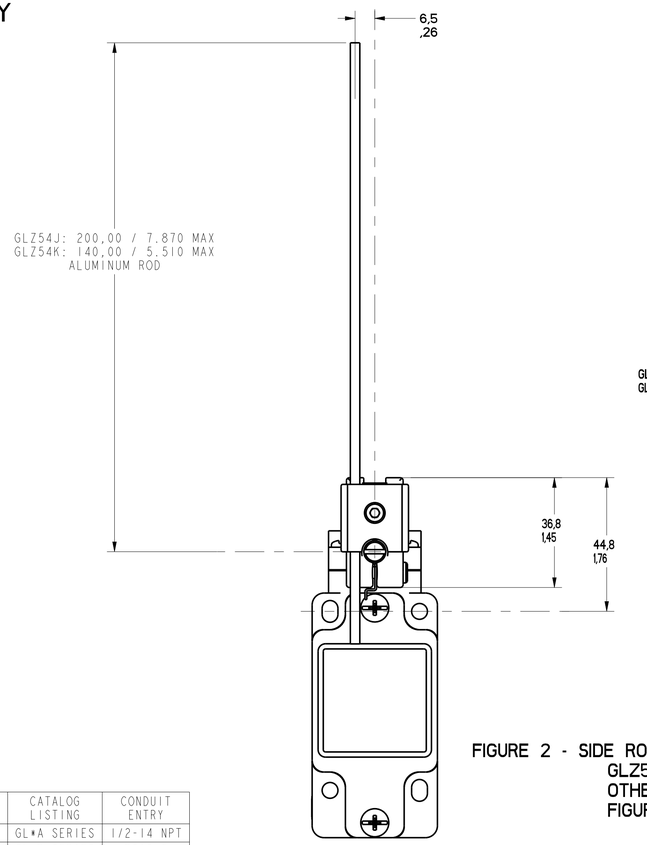




FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

| LEVER | ROLLER MATL | X DIM | Y DIM | Z DIM |
|---|---|---|---|---|
| GLZ51A | NYLON | 19,1<br>.75 | 55,9<br>2.20 | 6,4<br>.25 |
| GLZ51B | STEEL | 19,1<br>.75 | 55,9<br>2.20 | 6,4<br>.25 |
| GLZ51C | NYLON | 24,5<br>1.00 | 59,1<br>2.33 | 12,7<br>.50 |
| GLZ51Y | RUBBER | 50,0<br>1.97 | 66,1<br>2.60 | 10,0<br>.39 |
| GLZ51T | STAINLESS STEEL | 19,1<br>.75 | 56,8<br>2.24 | 8,8<br>.345 |



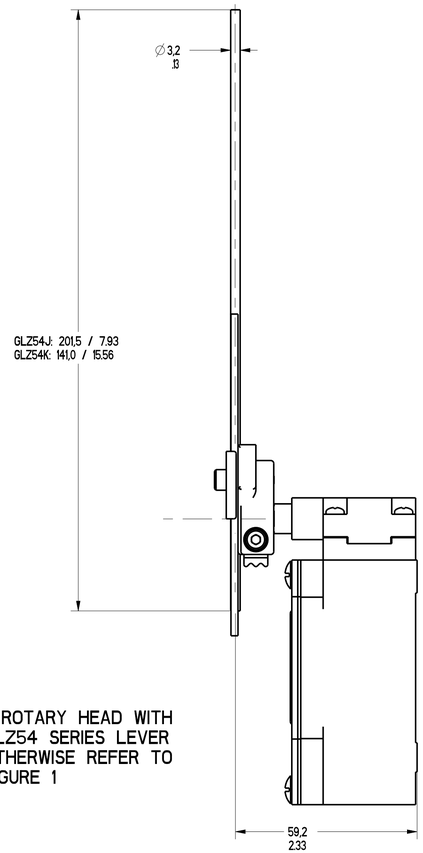




FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

| 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 5 8 | | | | GOLD PLATED CONTACTS |
|---|---|---|---|---|
| AC | | DC | | |
| A600 Ue | AC15 Ie | Q300 Ue | DC13 Ie | |
| (VOLTS) | (AMPS) | (VOLTS) | (AMPS) | IV 10µA MIN<br>50V 100mA MAX |
| 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<br>NEMA/UL TYPES 1, 4, 12, 13 |

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

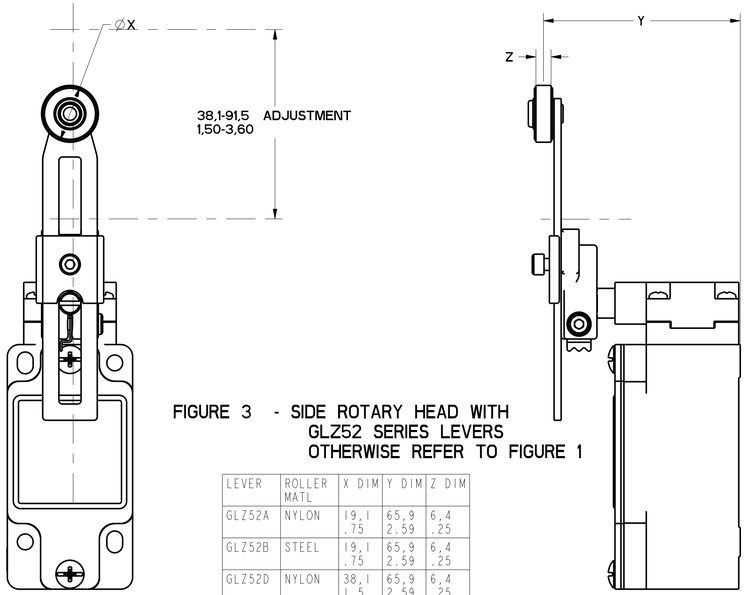



FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

| 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>1.6 | 71,5<br>2.81 | 12,7<br>.5 |
| GLZ52Y | RUBBER | 50,0<br>1.97 | 68,8<br>2.71 | 10,0<br>.39 |

NOTES
1 - HEADS MAY BE INDEXED IN 90° INCREMENTS
2 - LEVERS MAY BE KEYED TO THE SHAFT AT 90° INCREMENTS. THEY MAY ALSO BE ATTACHED, BUT NOT KEYED ANYWHERE ON THE SHAFT.
3 - FOR ADDITIONAL LEVERS SEE "M" DRAWING CHART GLZ5
4 - THE LEFT INDICATOR IS GREEN AND INDICATES "POWER ON" IT IS ON GLH SERIES PRODUCTS ONLY. THE RIGHT INDICATOR IS YELLOW AND INDICATES "OUTPUT STATUS" IT IS ON GLF AND GLH SERIES PRODUCTS ONLY.
5 - THE MAXIMUM VOLTAGE, Ve OF GLF AND GLH SERIES PRODUCTS IS THE MAXIMUM RATED VOLTAGE OF INDICATION LIGHTS
6 - FREE POSITION, OPERATE POINT, OVERTRAVEL AND PRETRAVEL ALL TO EN50041
7 - CAM TRAVEL FOR FIG 9 ONLY APPLIES WHEN LEVER IS ADJUSTED TO 38,1 / 1.50
8 - THE MAXIMUM VOLTAGE, Ve OF "06" AND "36" BASIC SWITCH CODE IS 300V (A300)
9 - 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

ANSI Y14.5M-1982 APPLIES

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SWITCH, ENCLOSED

CATALOG LISTING
GL SERIES CHART 1

THIRD ANGLE PROJECTION
SCALE 1 : 1
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| DIM mm | TOL mm± | DIM in | TOL inch± |
|---|---|---|---|
| NO PLACES | X ,8 | /,09 | X ,3 | 0 DU/03 |
| ONE PLACE | X,X | 1/64"016 | X,XX | 0 DU/015 |
| TWO PLACES | X,XX | 0.15"006 | X,XXX | 0 DU/005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐
WEIGHT

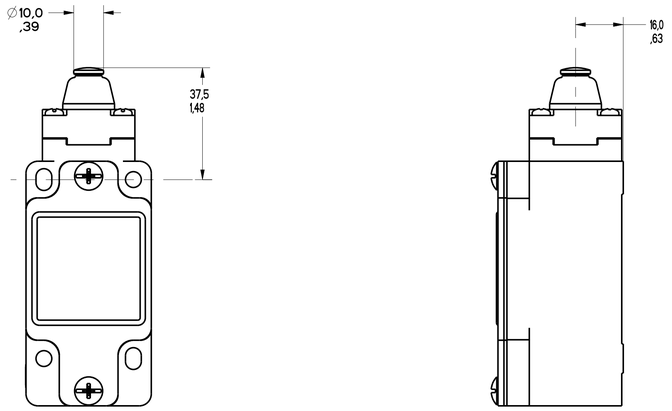


FIGURE 4 - TOP PIN PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

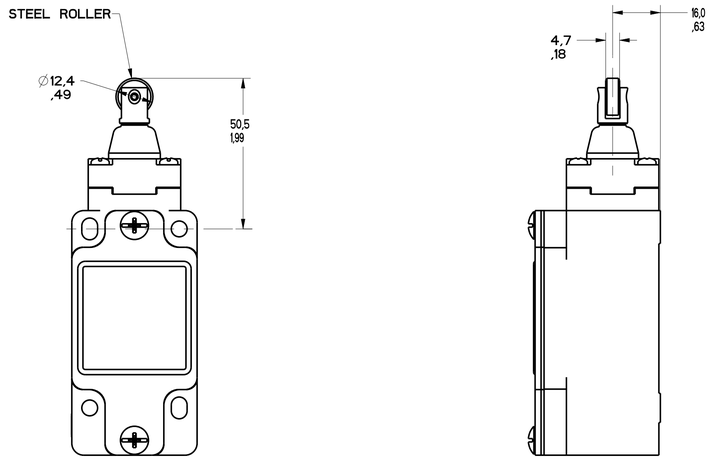


FIGURE 5 - TOP ROLLER PLUNGER HEAD OTHERWISE REFER TO FIGURE 1

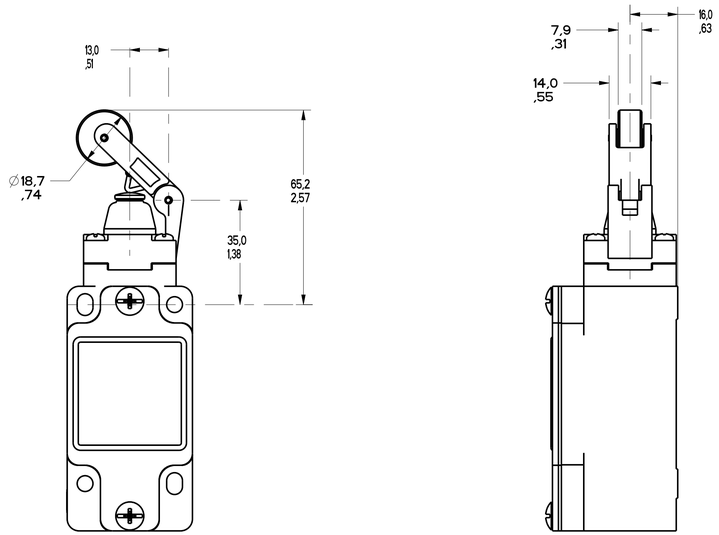


FIGURE 6 - TOP LEVER HEAD, OTHERWISE REFER TO FIGURE 1

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| PTC/CAD | DRAWN | W L S | 26AUG93 | CHECK | G.L.H | 26AUG93 | |
| M GL SERIES CHART 1 | | | | | | | |
| DRAWING NUMBER | 16 | | | | | | |
| ISSUE | | | 12OCT12 | CHK'D | CMH | 12OCT12 | |
| RELEASE NO. | PR-20782 | | | | | | |
| PAGE | 2 OF 13 | | | | | | |
| REPLACES | | | | | | | |

REVISIONS

| | | | |
|---|---|---|---|
| F | 0000401 | GLH 19MAY | |
| G | 0002986 | SK 03SEP94 | 05OCT10 |
| H | 0023759 | RKP 08JUN94 | CMH |
| J | 0037216 | BS 06FEB96 | CHECK |
| K | 0043629 | SC 25SEP96 | |
| L | 0048605 | VKS 04FEB09 | 26AUG93 |
| M | 0070059 | DN 30OCT10 | |
| N | 0094570 | SBM 20OCT12 | G.L.H |
| | | | CHECK |

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SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 1 : 1

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| | SI mm | TOL mm/± | US in | TOL in/± |
|---|---|---|---|---|
| NO PLACES | X | 1/.04 | X.X | 0.8/.03 |
| ONE PLACE | X.X | 0.4/.016 | X.XX | 0.38/.015 |
| TWO PLACES | X.XX | 0.15/.006 | X.XXX | 0.13/.005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

DESIGN UNITS SI METRIC [X] US CUSTOMARY [ ]

WEIGHT

ANSI Y14.5M-1982 APPLIES

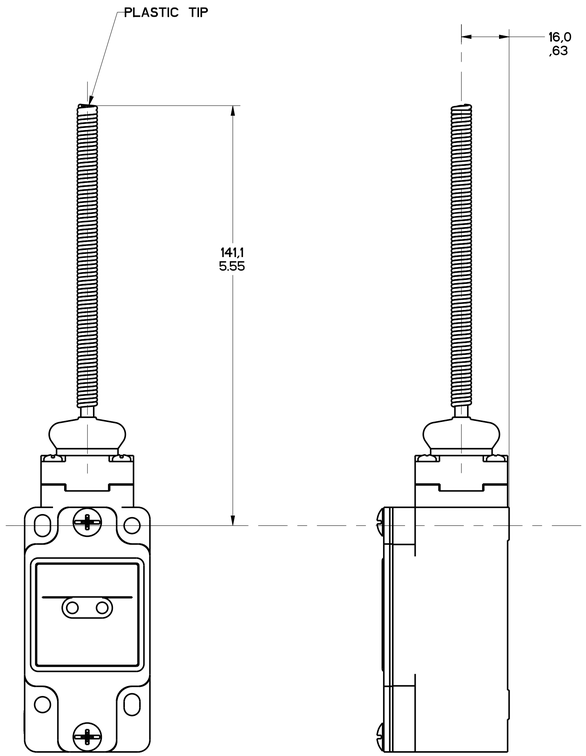





FIGURE 7 - WOBBLE HEAD, AND CAT WISKER HEAD COIL ACTUATOR, OTHERWISE REFER TO FIGURE 1

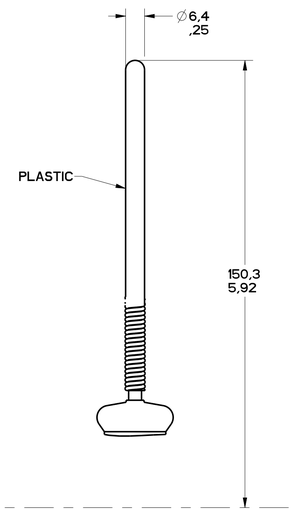


FIGURE 7A - WOBBLE HEAD, PLASTIC ACTUATOR, OTHERWISE SAME AS FIGURE 7

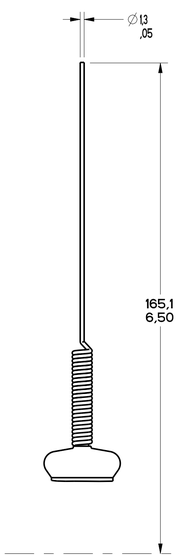


FIGURE 7B - WOBBLE HEAD STAINLESS STEEL SPRING ACTUATOR, OTHERWISE SAME AS FIGURE 7

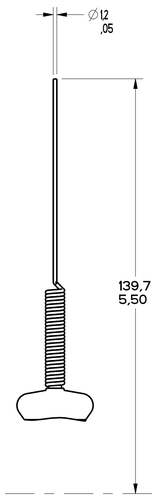


FIGURE 7C - CAT WHISKER ACTUATOR, STAINLESS STEEL SPRING, OTHERWISE SAME AS FIGURE 7

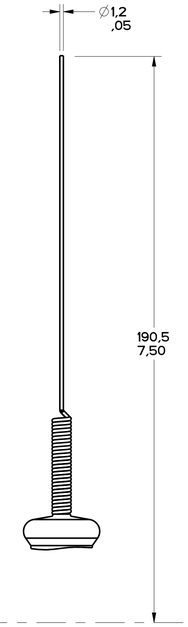


FIGURE 7D - CAT WHISKER ACTUATOR, STAINLESS STEEL SPRING, OTHERWISE SAME AS FIGURE 7

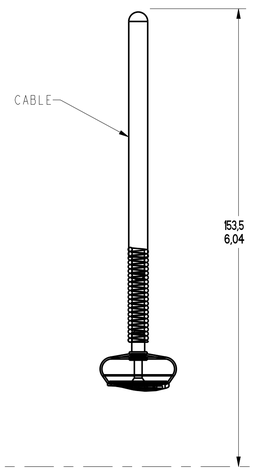


FIGURE 7E - CABLE WOBBLE ACTUATOR, OTHERWISE SAME AS FIGURE 7

M GL SERIES CHART 1 | DRAWING NUMBER | ISSUE 16 | 12OCT12 | CMH | CHECK | REVISIONS | S A V I 7 MAY 96 | PTC/CAD DRAWN

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SWITCH, ENCLOSED

CATALOG LISTING: GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 1 : 1

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| | DIM mm | TOL mm± | DIM in | TOL in± |
|---|---|---|---|---|
| NO PLACES | X | 0,4 | X | 0,01/,03 |
| ONE PLACE | X,X | 0,25/,016 | X,XX | 0,13/,005 |
| TWO PLACES | X,XX | 0,13/,006 | X,XXX | 0,13/,005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

DESIGN UNITS: SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

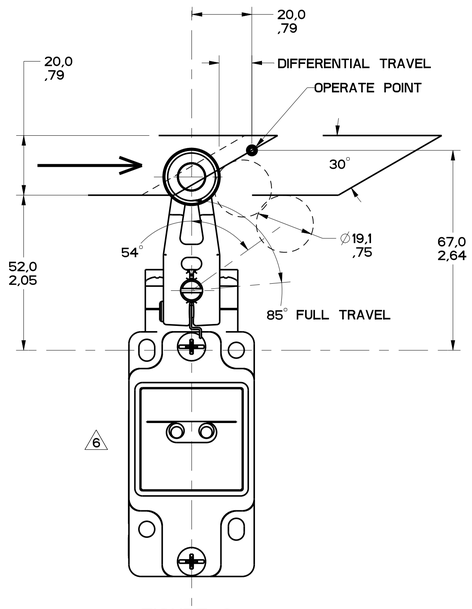


FIGURE 8

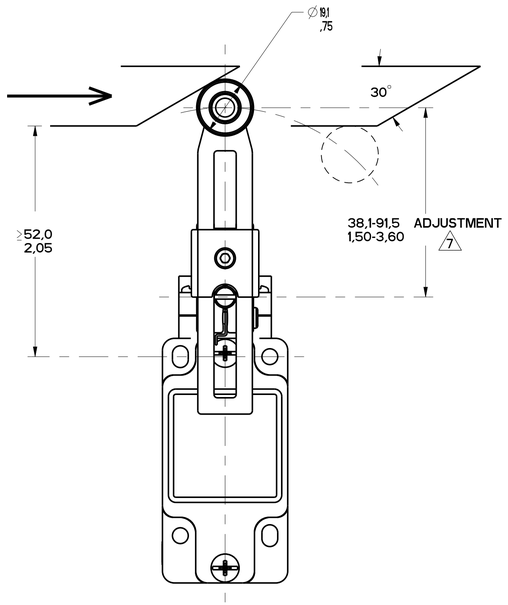


FIGURE 9

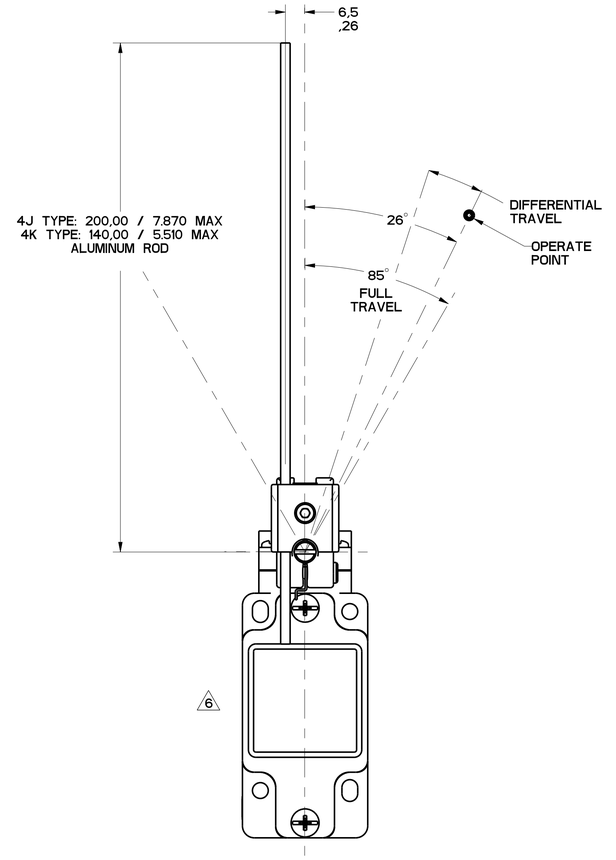


FIGURE 10

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SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 1:1

DO NOT SCALE PRINT

TOLERANCES
APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| | DIM mm | TOL mm/± | DIM " | TOL inch/± |
|---|---|---|---|---|
| NO PLACES | X | 1,04 | X.X | 0,81/,03 |
| ONE PLACE | X.X | 0,41/,016 | X.XX | 0,381/,015 |
| TWO PLACES | X.XX | 0,15/,006 | X.XXX | 0,13/,005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

DESIGN UNITS: SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

ANSI Y14.5M-1982 APPLIES

PTC/CAD
DRAWN S A V 27MAR96 CHECK DVM
M GL SERIES CHART 1 PAGE 4 OF 13 RELEASE NO. PR-20782 REPLACES
DRAWING NUMBER 12OCT12
ISSUE 16 CMH 12OCT12 CHECK

REVISIONS

| | | | |
|---|---|---|---|
| F | 0000401 | GLW 7JUN93 | |
| G | 0002986 | RS 20JAN94 | |
| H | 0023759 | KKP 07AUG96 | CMH |
| J | 0037216 | RS 08FEB98 | CHECK |
| K | 0043629 | JS 12SEP08 | CHECK |
| L | 0048605 | YAS 09FEB09 | CHECK |
| M | 0070059 | DN 05OCT10 | 07AUG06 |
| N | 0094570 | SBH 12OCT12 | DVM |

## FIGURES 8, 9, 10 SIDE ROTARY HEAD, ANGULAR ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, □ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING TORQUE N-m / LB-IN | MAXIMUM DISCONNECT TORQUE N-m / LB-IN | MAX OPERATE DEGREE/S | MIN OPERATE DEGREE/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01A<br>GL**07A | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 21-22, 13-14: 26° / 55**° / 85°; 12° DIFFERENTIAL TRAVEL | .330 / 2.9 | .385 / 3.4 | 1290 | 13 | 250 |
| GL**03A<br>GL**33A | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 21-22, 13-14: 26**° / 85°; 38° | .330 / 2.9 | .385 / 3.4 | 1290 | 13 | 250 |
| GL**04A<br>GL**34A | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 21-22, 13-14: 38**° / 85°; 26° | .330 / 2.9 | .400 / 3.5 | 1290 | 13 | 250 |
| GL**05A<br>GL**35A | SLOW ACTING<br>2X | 13-14, 23-24: 38° / 85° | .330 / 2.9 | .385 / 3.4 | 1290 | 13 | 250 |
| GL**06A<br>GL**36A | SLOW ACTING<br>2Y | 11-12, 21-22: 26**° / 85° | .330 / 2.9 | .385 / 3.4 | 1290 | 13 | 250 |
| GL**20A<br>GL**22A<br>GL**24A<br>GL**32A | SNAP ACTION CONTACTS DOUBLE POLE | 11-12, 21-22, 13-14, 23-24: 26° / 55**° / 85°; 12° DIFFERENTIAL TRAVEL | .330 / 2.9 | .385 / 3.4 | 1290 | 13 | 250 |
| GL**21A<br>GL**25A<br>GL**28A<br>GL**31A | STEP 1, STEP 2<br>SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL | 11-12, 13-14, 21-22, 23-24: 27 / 42; 8 DIFFERENTIAL TRAVEL; 8 DIFFERENTIAL TRAVEL | .330 / 2.9 | N/A | 1290 | 13 | 250 |

## SIDE ROTARY HEAD, CAM ACTUATION PER EN50041, FIGURES 8 AND 9 ⚠1

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, □ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 DIMENSIONS IN mm | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL mm/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01A<br>GL**07A | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 21-22, 13-14: 0 / 20 / 56**; 12 DIFFERENTIAL TRAVEL | 9.7 / 2.2 | 11.4 / 2.6 | .85 / 33.5 | 8.5 / .33 | 250 |
| GL**03A<br>GL**33A | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 21-22, 13-14: 0 / 20** / 32 | 9.7 / 2.2 | 11.4 / 2.6 | .85 / 33.5 | 8.5 / .33 | 250 |
| GL**04A<br>GL**34A | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 21-22, 13-14: 0 / 32 / 20 | 9.7 / 2.2 | 11.4 / 2.6 | .85 / 33.5 | 8.5 / .33 | 250 |
| GL**05A<br>GL**35A | SLOW ACTING<br>2X | 13-14, 23-24: 0 / 32° / 85° | 9.7 / 2.2 | 11.4 / 2.6 | .85 / 33.5 | 8.5 / .33 | 250 |
| GL**06A<br>GL**36A | SLOW ACTING<br>2Y | 11-12, 21-22: 0 / 20** | 9.7 / 2.2 | 11.4 / 2.6 | .85 / 33.5 | 8.5 / .33 | 250 |
| GL**20A<br>GL**22A<br>GL**24A<br>GL**32A | SNAP ACTION CONTACTS DOUBLE POLE | 11-12, 21-22, 13-14, 23-24: 0 / 20 / 56**; 12 DIFFERIENTIAL TRAVEL | 9.7 / 2.2 | 11.8 / 2.7 | .85 / 33.5 | 8.5 / .33 | 250 |
| GL**21A<br>GL**25A<br>GL**28A<br>GL**31A | STEP 1, STEP 2<br>SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL | 11-12, 13-14, 21-22, 23-24: 0 / 20 / 38.5; 8.5 DIFFERENTIAL TRAVEL; 7 DIFFERENTIAL TRAVEL | 9.7 / 2.2 | N/A | .85 / 33.5 | 8.5 / .33 | 250 |
| GL**26J<br>GL**27J<br>GL**29J<br>GL**30J | CCW, CW<br>SNAP ACTION CONTACTS DOUBLE POLE CENTER NEUTRAL | 11-12, 13-14, 21-22, 23-24: 0 / 16; 8 DIFFERENTIAL TRAVEL; 8 DIFFERENTIAL TRAVEL | 9.7 / 2.2 | N/A | .85 / 33.5 | 8.5 / .33 | 250 |

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SWITCH, ENCLOSED

CATALOG LISTING
GL SERIES CHART 1

ANSI Y14.5M-1982 APPLIES

THIRD ANGLE PROJECTION
SCALE
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN UNITS, CONVERSIONS ARE ONLY FOR REFERENCE, UNLESS NOTED, TOLERANCES ARE ±

| | DIM in | TOL ± in/in | DIM ± | TOL ± mm/in |
|---|---|---|---|---|
| NO PLACES | X. | 1/32 | X.X | 0.8/.03 |
| ONE PLACE | X.X | 0.4/.016 | X.XX | 0.38/.015 |
| TWO PLACES | X.XX | 0.13/.005 | X.XXX | 0.13/.005 |
| THREE PLACES | | | | |
| ANGLES | | | | |

SI METRIC ☐ US CUSTOMARY ☐
DESIGN UNITS
WEIGHT

M GL SERIES CHART 1 | PAGE 5 OF 13 | RELEASE NO PR-20782 | DRAWING NUMBER 16 | ISSUE | 20CT12 CMH | CHECK | REVISIONS
F 00005401 GLH 4JUN93
G 00002986 RS 29JAN94
H 00023759 RKF 07AUG96
J 00372/6 BS 08FEB08
K 00043629 BS 12SEP08
L 00048605 YKS 09FEB09
M 00700559 BS 05OCT10
N 00945/0 SBH 19OCT12
05OCT10 CMH | CHECK | 26AUG93 GLH | CHECK | W L S 26AUG93 | DRAWN | PTC/CAD

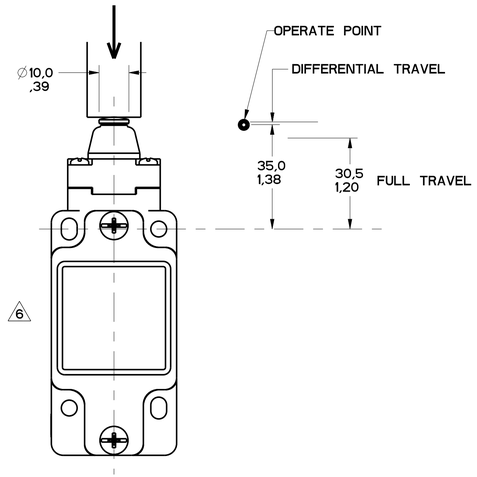


FIGURE 11

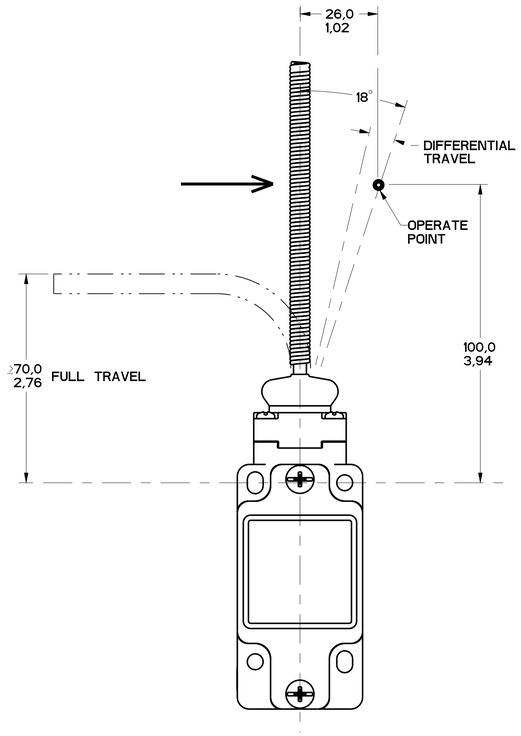


FIGURE 12

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MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 1 : 1

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| | DIM mm | TOL mm/in | DIM in | TOL mm/in |
|---|---|---|---|---|
| NO PLACES | X | /-/,04 | X.X | 0,8/,03 |
| ONE PLACE | X.X | 0,4/,016 | X.XX | 0,38/,015 |
| TWO PLACES | X.XX | 0,15/,006 | X.XXX | 0,13/,005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

ANSI Y14.5M-1982 APPLIES

| | | | | | |
|---|---|---|---|---|---|
| PTC/CAD 3D | | | | | |
| DRAWN | W L S | 26AUG93 | | | |
| CHECK | G L H | 26AUG93 | | | |
| M GL SERIES CHART 1 | | | | | |
| PAGE 6 OF 13 | | | | | |
| RELEASE NO. PR 20782 | | | | | |
| REPLACES - | | | | | |
| DRAWING NUMBER 16 | | | | | |
| ISSUE 16 | | | | | |
| CHECK | CMH | 12OCT12 | | | |
| REVISIONS | | | | | |
| F | 0000401 | GLH 7JUN93 | | | |
| G | 0002986 | RK 7JAN94 | | | |
| H | 0023759 | RAP 07AUG96 | | | |
| J | 0037216 | RK 08FEB98 | | | |
| K | 0043629 | JSE 12SEP08 | | | |
| L | 0048605 | YAG 09FEB09 | | | |
| M | 0070059 | DN 05OCT10 | | | |
| N | 0094570 | SBH 10OCT12 | | | |
| CHECK | CMH | 05OCT10 | | | |
| CHECK | CHECK | | | | |

## FIGURES 11, PIN PLUNGER HEAD, LINEAR ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ CONTACT CLOSED, □ CONTACT OPEN, ▨ CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL mm/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01B<br>GL**07B | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 37.5 35 33** 30.5<br>21-22 >, 13-14 <<br>0.9 DIFFERENTIAL TRAVEL | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**03B<br>GL**33B | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 37.5 35** 30.5<br>21-22 >, 13-14 <<br>34 | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**04B<br>GL**34B | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 37.5 34** 30.5<br>21-22 >, 13-14 <<br>35 | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**05B<br>GL**35B | SLOW ACTING<br>2X | 37.5 34 30.5<br>13-14 >, 23-24 < | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**06B<br>GL**36B | SLOW ACTING<br>2Y | 37.5 35** 30.5<br>11-12 >, 21-22 <<br>34 | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**20B<br>GL**22B<br>GL**24B<br>GL**32B | SNAP ACTION CONTACTS DOUBLE POLE | 37.5 35 33** 30.5<br>11-12, 21-22 >, 13-14, 23-24 <<br>0.9 DIFFERENTIAL TRAVEL | 16 / 3.6 | 37 / 8.2 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**21B<br>GL**25B<br>GL**28B<br>GL**31B | STEP 1, STEP 2<br>SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL | 37.5 35 33.8 30.5<br>11-12 >, 13-14 <, 21-22 >, 23-24 <<br>.8 DIFFERENTIAL TRAVEL<br>.8 DIFFERENTIAL TRAVEL | 16 / 3.6 | N/A | 0.1 / 3.9 | 1.0 / .04 | 250 |

## FIGURE 12, WOBBLE HEAD, ANGULAR ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ CONTACT CLOSED, □ CONTACT OPEN, ▨ CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING TORQUE N-m / LB/in | MAXIMUM DISCONNECT TORQUE N-m / LB/in | MAX OPERATE DEGREE/S | MIN OPERATE VELOCITY DEGREE/S | MAX OPERATE RATE CYCLES/MIN |
|---|---|---|---|---|---|---|---|
| GL**01E<br>GL**07E | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 18°<br>21-22 >, 13-14 <<br>8° DIFFERENTIAL TRAVEL | 0.2 / 1.8 | N/A | 360 | 8 | 100 |
| GL**03E<br>GL**33E | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 0° 18° 25° 35°<br>21-22 >, 13-14 < | 0.2 / 1.8 | N/A | 360 | 8 | 100 |
| GL**04E<br>GL**34E | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 0° 18° 25° 35°<br>21-22 >, 13-14 < | 0.2 / 1.8 | N/A | 360 | 8 | 100 |
| GL**05E<br>GL**35E | SLOW ACTING<br>2X | 0° 25° 35°<br>13-14 >, 23-24 < | 0.2 / 1.8 | N/A | 360 | 8 | 100 |
| GL**06E<br>GL**36E | SLOW ACTING<br>2Y | 0° 18° 35°<br>11-12 >, 21-22 < | 0.2 / 1.8 | N/A | 360 | 8 | 100 |
| GL**20E<br>GL**22E<br>GL**24E<br>GL**32E | SNAP ACTION CONTACTS DOUBLE POLE | 18°<br>11-12, 21-22 >, 13-14, 23-24 <<br>8° DIFFERENTIAL TRAVEL | 0.2 / 1.8 | N/A | 360 | 8 | 100 |

## FIGURE 12, WOBBLE HEAD, SIDE ACTUATION AT 100mm

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ CONTACT CLOSED, □ CONTACT OPEN, ▨ CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL mm/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01E<br>GL**07E | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 26<br>21-22 >, 13-14 <<br>12 DIFFERENTIAL TRAVEL | 2.5 / 0.6 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**03E<br>GL**33E | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 26.5 38.1<br>21-22 >, 13-14 < | 2.5 / 0.6 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**04E<br>GL**34E | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 26.5 38.1<br>21-22 >, 13-14 < | 2.5 / 0.6 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**05E<br>GL**35E | SLOW ACTING<br>2X | 38.1<br>13-14 >, 23-24 < | 2.5 / 0.6 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**06E<br>GL**36E | SLOW ACTING<br>2Y | 26.5<br>11-12 >, 21-22 < | 2.5 / 0.6 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**20E<br>GL**22E<br>GL**24E<br>GL**32E | SNAP ACTION CONTACTS DOUBLE POLE | 26<br>11-12, 21-22 >, 13-14, 23-24 < | 2.5 / 0.6 | N/A | 360 | 8 | 100 |

THIRD ANGLE PROJECTION
SCALE - -
DO NOT SCALE PRINT
TOLERANCES
APPLY TO DESIGN UNITS, CONVERSIONS ARE ONLY FOR REFERENCE, UNLESS NOTED, TOLERANCES ARE ±
NO PLACES X. 1/32 ± 0.8
ONE PLACE X.X 1/64 ± 0.4
TWO PLACES X.XX 0.015" ± 0.38
THREE PLACES X.XXX 0.005" ± 0.127
ANGLES ±2°
SI METRIC ☒ US CUSTOMARY ☐
DESIGN UNITS
WEIGHT
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MICRO SWITCH a Honeywell Division
SWITCH, ENCLOSED
CATALOG LISTING
GL SERIES CHART 1
ANSI Y14.5M-1982 APPLIES

M GL SERIES CHART 1 PAGE 7 OF 13 RELEASE NO PR-20782
DRAWING NUMBER 16
ISSUE 12OCT12 CMH
REVISIONS
F 00050401 GLH 4JUN93
G 0002986 RS 20JAN94
H 0023759 RKP 07AUG96
J 0037216 RS 08FEB08
K 0043629 RS 12SEP08
L 0048605 YKS 09FEB09
M 0070059 RS 05OCT10
N 0094570 SEH 19OCT12
DRAWN W. L. S. 20AUG93
PTC/CAD
CHECK GLH 26AUG93
CHECK CMH 05OCT10
CHECK CMH 12OCT12

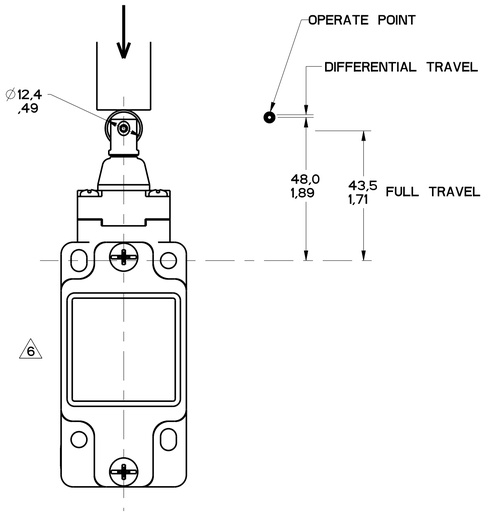


FIGURE 13A

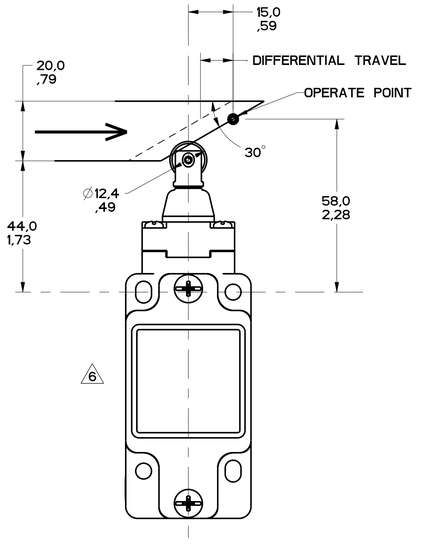


FIGURE 13B

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MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 1:1

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| | DIM mm | TOL mm/± | DIM in | TOL in/± |
|---|---|---|---|---|
| NO PLACES | X | 1/.04 | X.X | 0.8/.03 |
| ONE PLACE | X.X | 0.4/.016 | X.XX | 0.38/.015 |
| TWO PLACES | X.XX | 0.13/.005 | X.XXX | 0.13/.005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

SI METRIC [X] DESIGN UNITS US CUSTOMARY [ ]

WEIGHT

ANSI Y14.5M-1982 APPLIES

PTC/CAD

| | | | |
|---|---|---|---|
| DRAWN | W. L. S. | 20APR93 | |
| CHECK | G. L. H. | 26AUG93 | |
| | | | |
| | | | |
| CHECK | CMH | 050CT10 | |
| | | | |
| ISSUE 16 | | | |
| DRAWING NUMBER | 120CT12 | | |
| M | GL SERIES CHART 1 | | |
| RELEASE NO. | PR-20182 | | |
| PAGE | 8 OF 13 | | |
| REPLACES | | | |

REVISIONS

| | | | |
|---|---|---|---|
| F | 0000401 | GLH 7JUN83 | |
| G | 0002986 | RK 7JAN84 | |
| H | 0023759 | KAP 07AUG86 | |
| J | 0037216 | RK 08FEB88 | |
| K | 0043629 | RK 12SEP88 | |
| L | 0048605 | YAG 09FEB89 | |
| M | 0070059 | RK 05OCT10 | |
| N | 0094570 | SBH 12OCT12 | |

## FIGURE 13A, ROLLER PLUNGER HEAD, PIN ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ CONTACT CLOSED, □ CONTACT OPEN, ▨ CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL mm/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01C<br>GL**07C | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 50.5 48 46** 43.5<br>21-22 >, 13-14 <<br>0.9 DIFFERENTIAL TRAVEL | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**03C<br>GL**33C | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 50.5 48** 43.5<br>21-22 >, 13-14 <<br>47 | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**04C<br>GL**34C | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 50.5 47** 43.5<br>21-22 >, 13-14 <<br>48 | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**05C<br>GL**35C | SLOW ACTING<br>2X | 50.5 47 43.5<br>13-14 >, 23-24 < | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**06C<br>GL**36C | SLOW ACTING<br>2Y | 50.5 48** 43.5<br>11-12 >, 21-22 < | 16 / 3.6 | 27 / 6.0 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**20C<br>GL**22C<br>GL**24C<br>GL**32C | SNAP ACTION CONTACTS DOUBLE POLE | 50.5 48 46** 43.5<br>11-12, 21-22 >, 13-14, 23-24 <<br>0.9 DIFFERENTIAL TRAVEL | 16 / 3.6 | 37 / 8.2 | 0.1 / 3.9 | 1.0 / .04 | 250 |
| GL**21C<br>GL**25C<br>GL**28C<br>GL**31C | STEP 1<br>SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL<br>STEP 2 | 50.5 48 46.8 43.5<br>11-12 >, 13-14 <, 21-22 >, 23-24 <<br>.8 DIFFERENTIAL TRAVEL<br>.8 DIFFERENTIAL TRAVEL | 16 / 3.6 | N/A | 0.1 / 3.9 | 1.0 / .04 | 250 |

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

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ CONTACT CLOSED, □ CONTACT OPEN, ▨ CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL mm/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01C<br>GL**07C | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 0 15 18.3**<br>21-22 >, 13-14 <<br>1.8 DIFFERENTIAL TRAVEL | 9.3 / 2.1 | 15.6 / 3.5 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**03C<br>GL**33C | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 0 15**<br>21-22 >, 13-14 <<br>16.8 | 9.3 / 2.1 | 15.6 / 3.5 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**04C<br>GL**34C | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 0 16.8**<br>21-22 >, 13-14 <<br>15 | 9.3 / 2.1 | 15.6 / 3.5 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**05C<br>GL**35C | SLOW ACTING<br>2X | 0 16.8<br>13-14 >, 23-24 < | 9.3 / 2.1 | 15.6 / 3.5 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**06C<br>GL**36C | SLOW ACTING<br>2Y | 0 15**<br>21-22 >, 13-14 < | 9.3 / 2.1 | 15.6 / 3.5 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**20C<br>GL**22C<br>GL**24C<br>GL**32C | SNAP ACTION CONTACTS DOUBLE POLE | 0 15 18.3**<br>11-12, 21-22 >, 13-14, 23-24 <<br>1.8 DIFFERIENTIAL TRAVEL | 9.3 / 2.1 | 21.4 / 4.8 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**21C<br>GL**25C<br>GL**28C<br>GL**31C | STEP 1<br>SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL<br>STEP 2 | 0 15 16.9<br>11-12 >, 13-14 <, 21-22 >, 23-24 <<br>1.4 DIFFERENTIAL TRAVEL<br>1.4 DIFFERENTIAL TRAVEL | 9.3 / 2.1 | N/A | 0.17 / 6.7 | 1.7 / .067 | 250 |

ANSI Y14.5M-1982 APPLIES

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SWITCH, ENCLOSED

CATALOG LISTING: GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE -

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| DIM | TOL mm's | DIM | TOL inch's |
|---|---|---|---|
| NO PLACES | X | .1/.04 | X | 0.8/.03 |
| ONE PLACE | X.X | 0.47/.016 | X.XX | 0.38/.015 |
| TWO PLACES | X.XX | 0.15/.006 | X.XXX | 0.13/.005 |
| THREE PLACES | | | | |
| ANGLES | ±2° | | | |

SI METRIC [X] DESIGN UNITS [ ] US CUSTOMARY

WEIGHT

PTC/CAD DRAWN W L S 05MAR03 CHECK SAV 05MAR03
M GL SERIES CHART 1 PAGE 9 OF 13 REPLACES
RELEASE NO. PR-20782
DRAWING OWNER
ISSUE 16 CMH 20OCT12 CHECK
REVISIONS
F 0000401 GLW 24JAN03
G 0002986 RS 29JAN04
H 0023759 RKP 07AUG06
J 0037216 RS 08FEB08
K 0043629 SS 12SEP08
L 0048605 YKS 09FEB09
M 0070059 SM 05OCT10
N 0094570 SBH 19OCT12
05OCT10 CMH
05MAR03 SAV

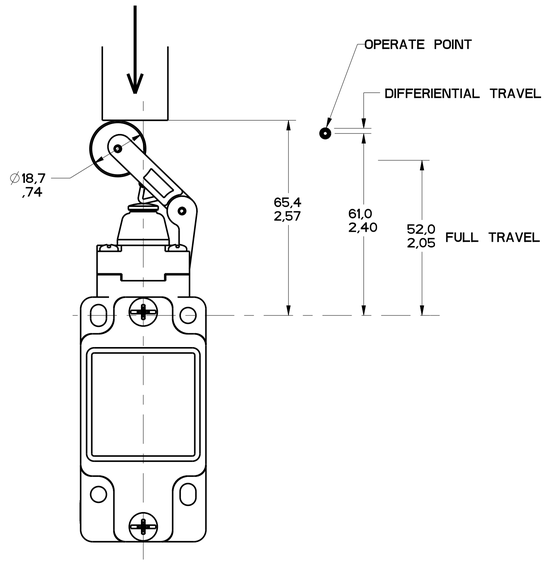


FIGURE 14A

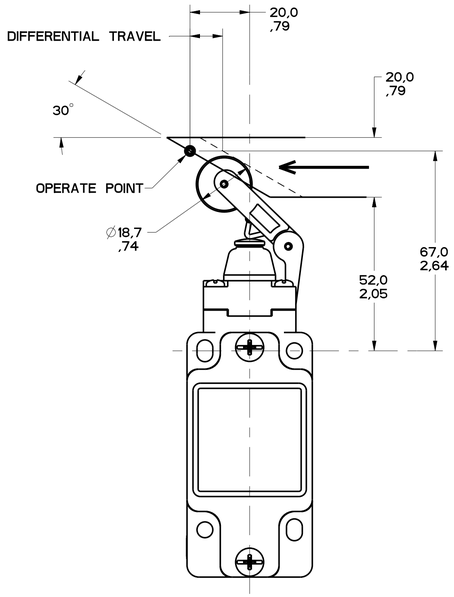


FIGURE 14B

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MICRO SWITCH a Honeywell Division

SWITCH, ENCLOSED

CATALOG LISTING

GL SERIES CHART 1

THIRD ANGLE PROJECTION

SCALE 1 : 1

DO NOT SCALE PRINT

TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| | DIM. mm | TOL. mm/in | DIM. in | TOL. mm/in |
|---|---|---|---|---|
| NO PLACES | X | 1/.04 | X.X | 0.8/.03 |
| ONE PLACE | X.X | 0.4/.016 | X.XX | 0.38/.015 |
| TWO PLACES | X.XX | 0.15/.006 | X.XXX | 0.13/.005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

DESIGN UNITS: SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

ANSI Y14.5M-1982 APPLIES

PTC/CAD 3D

DRAWN GLH 02MAR01

CHECK

SAV 02MAR01

CHECK

M GL SERIES CHART 1

DRAWING NUMBER

RELEASE NO. -

PAGE 10 OF 13

REPLACES -

ISSUE 16 CMH 20OCT12

CHECK

REVISIONS

| | | | |
|---|---|---|---|
| F | 0000401 | GLH 21JUN13 | 05OCT10 |
| G | 0002986 | RK 20JAN04 | CMH |
| H | 0023759 | RKP 07AUG06 | CHECK |
| J | 0037216 | RK 08FEB08 | CHECK |
| K | 0043629 | JCP 12SEP08 | 02MAR01 |
| L | 0048605 | RKS 09FEB09 | CHECK |
| M | 0070059 | DN 05OCT10 | SAV |
| N | 0094570 | SBW 19OCT12 | CHECK |

## FIGURE 14A, TOP ROLLER LEVER HEAD WITH PIN ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, □ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL M/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01D<br>GL**07D | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 65.2 61 56.9** 52<br>21-22 ■■■■■■▨□□□ >\|<br>13-14 ■■■■■■▨□□□ >\|<br>1.7 DIFFERENTIAL TRAVEL | 9.5 / 2.1 | 12 / 2.7 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**03D<br>GL**33D | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 65.2 61** 52<br>21-22 ■■■■■■□□□□ >\|<br>13-14 ■■■■■■□□□□ >\|<br>59.1 | 9.5 / 2.1 | 12 / 2.7 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**04D<br>GL**34D | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 65.2 59.1** 52<br>21-22 ■■■■■■□□□□ >\|<br>13-14 ■■■■■■□□□□ >\|<br>61 | 9.5 / 2.1 | 12 / 2.7 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**05D<br>GL**35D | SLOW ACTING<br>2X | 65.2 59.1 52<br>13-14 ■■■■■■□□□□ >\|<br>23-24 ■■■■■■□□□□ >\| | 9.5 / 2.1 | 12 / 2.7 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**06D<br>GL**36D | SLOW ACTING<br>2Y | 65.2 61** 52<br>11-12 ■■■■■■□□□□ >\|<br>21-22 ■■■■■■□□□□ >\| | 9.5 / 2.1 | 12 / 2.7 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**20D<br>GL**22D<br>GL**24D<br>GL**32D | SNAP ACTION CONTACTS DOUBLE POLE | 65.2 61 56.9** 52<br>11-12, 21-22 ■■■■■■▨□□□ >\|<br>13-14, 23-24 ■■■■■■▨□□□ >\|<br>1.7 DIFFERIENTIAL TRAVEL | 9.5 / 2.1 | 16.4 / 3.7 | 0.17 / 6.7 | 1.7 / .067 | 250 |
| GL**21D<br>GL**25D<br>GL**28D<br>GL**31D | STEP 1<br>STEP 2<br>SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL | 65.2 61 58.6<br>11-12 ■■■■■■▨□□□ >\|<br>13-14 ■■■■■■▨□□□ >\|<br>21-22 ■■■■■■□□□□ >\|<br>23-24 ■■■■■■▨□□□ >\|<br>1.6 DIFFERENTIAL TRAVEL<br>1.6 DIFFERENTIAL TRAVEL | 9.5 / 2.1 | N/A | 0.17 / 6.7 | 1.7 / .067 | 250 |

## FIGURE 14B, TOP ROLLER LEVER HEAD WITH CAM ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ■ - CONTACT CLOSED, □ - CONTACT OPEN, ▨ - CONTACT CLOSED DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL mm/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01D<br>GL**07D | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 0 20 29.1**<br>21-22 ■■■■■■▨□□□ >\|<br>13-14 ■■■■■■▨□□□ >\|<br>4.1 DIFFERENTIAL TRAVEL | 5.5 / 1.2 | 7.0 / 1.6 | 0.29 / 11.4 | 2.9 / .11 | 250 |
| GL**03D<br>GL**33D | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 0 20**<br>21-22 ■■■■■■□□□□ >\|<br>13-14 ■■■■■■□□□□ >\|<br>24.1 | 5.5 / 1.2 | 7.0 / 1.6 | 0.29 / 11.4 | 2.9 / .11 | 250 |
| GL**04D<br>GL**34D | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 0 24.1**<br>21-22 ■■■■■■□□□□ >\|<br>13-14 ■■■■■■□□□□ >\|<br>20 | 5.5 / 1.2 | 9.6 / 2.2 | 0.29 / 11.4 | 2.9 / .11 | 250 |
| GL**05D<br>GL**35D | SLOW ACTING<br>2X | 0 24.1<br>13-14 ■■■■■■□□□□ >\|<br>23-24 ■■■■■■□□□□ >\| | 5.5 / 1.2 | 7.0 / 1.6 | 0.29 / 11.4 | 2.9 / .11 | 250 |
| GL**06D<br>GL**36D | SLOW ACTING<br>2Y | 0 20**<br>11-12 ■■■■■■□□□□ >\|<br>21-22 ■■■■■■□□□□ >\| | 5.5 / 1.2 | 7.0 / 1.6 | 0.29 / 11.4 | 2.9 / .11 | 250 |
| GL**20D<br>GL**22D<br>GL**24D<br>GL**32D | SNAP ACTION CONTACTS DOUBLE POLE | 0 20 29.1**<br>11-12, 21-22 ■■■■■■▨□□□ >\|<br>13-14, 23-24 ■■■■■■▨□□□ >\|<br>4.1 DIFFERIENTIAL TRAVEL | 5.5 / 1.2 | 7.0 / 1.6 | 0.29 / 11.4 | 2.9 / .11 | 250 |
| GL**21D<br>GL**25D<br>GL**28D<br>GL**31D | STEP 1<br>STEP 2<br>SNAP ACTION CONTACTS DOUBLE POLE SEQUENCIAL | 0 20 25.5<br>11-12 ■■■■■■▨□□□ >\|<br>13-14 ■■■■■■▨□□□ >\|<br>21-22 ■■■■■■□□□□ >\|<br>23-24 ■■■■■■▨□□□ >\|<br>3.7 DIFFERENTIAL TRAVEL<br>3.7 DIFFERENTIAL TRAVEL | 5.5 / 1.2 | N/A | 0.29 / 11.4 | 2.9 / .11 | 250 |

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GL SERIES CHART 1

THIRD ANGLE PROJECTION
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NO PLACES: DIM mm X, TOL mm ±1.0 | DIM in X, TOL in ±.04
ONE PLACE: X.X, ±0.10 | X.XX, ±.010
TWO PLACES: X.XX, ±0.127 | X.XXX, ±.005
THREE PLACES: X.XXX, ±0.05
ANGLES: ±2°
DESIGN UNITS: SI METRIC ☒ | US CUSTOMARY ☐
WEIGHT

ANSI Y14.5M-1982 APPLIES

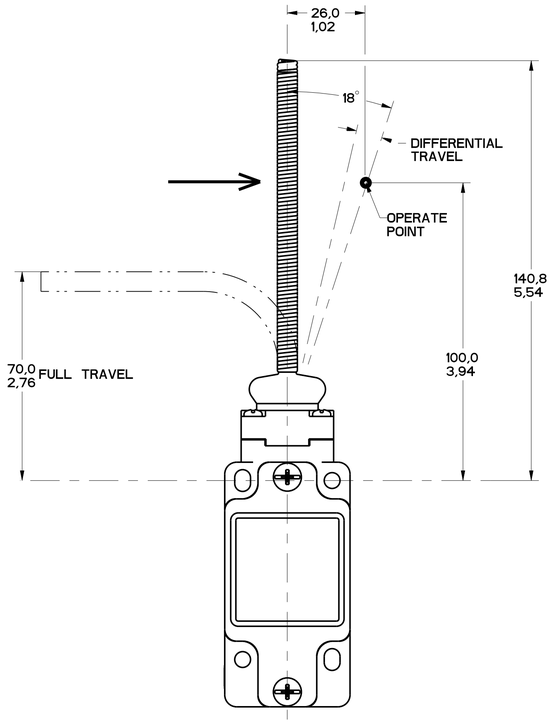


FIGURE 15

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GL SERIES CHART 1

THIRD ANGLE PROJECTION

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TOLERANCES

APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE ±

| | DIM mm | TOL mm± | DIM in | TOL in± |
|---|---|---|---|---|
| NO PLACES | X | /.04 | X.X | 0.8/.03 |
| ONE PLACE | X.X | 0.4/.016 | X.XX | 0.38/.015 |
| TWO PLACES | X.XX | 0.15/.006 | X.XXX | 0.13/.005 |
| THREE PLACES | | | | |
| ANGLES | | ±2° | | |

DESIGN UNITS SI METRIC ☒ US CUSTOMARY ☐

WEIGHT

ANSI Y14.5M-1982 APPLIES

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ISSUE 16 CMH 2OCT12

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| N | 0094570 | SBH 10OCT12 | SAV |

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## FIGURE 15, CAT WISKER HEAD, ANGULAR ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ▬ - CONTACT CLOSED, ▭ - CONTACT OPEN, //// - CONTACT CLOSED DIFFERENTIAL TRAVEL | MAXIMUM OPERATING TORQUE N-m / LB-IN | MAXIMUM DISCONNECT TORQUE N-m / LB-IN | MAX OPERATE DEGREE/S | MIN OPERATE VELOCITY DEGREE/S | MAX OPERATE RATE CYCLES/MIN |
|---|---|---|---|---|---|---|---|
| GL**01K<br>GL**07K | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 18°<br>21-22<br>13-14<br>8° DIFFERENTIAL TRAVEL | 0.1 / .9 | N/A | 360 | 8 | 100 |
| GL**03K<br>GL**33K | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 18°<br>21-22<br>13-14<br>25 | 0.1 / .9 | N/A | 360 | 8 | 100 |
| GL**04K<br>GL**34K | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 25°<br>21-22<br>13-14<br>18° | 0.1 / .9 | N/A | 360 | 8 | 100 |
| GL**05K<br>GL**35K | SLOW ACTING<br>2X | 25°<br>13-14<br>23-24 | 0.1 / .9 | N/A | 360 | 8 | 100 |
| GL**06K<br>GL**36K | SLOW ACTING<br>2Y | 18°<br>11-12<br>21-22 | 0.1 / .9 | N/A | 360 | 8 | 100 |
| GL**20K<br>GL**22K<br>GL**24K<br>GL**32K | SNAP ACTION CONTACTS DOUBLE POLE | 18°<br>11-12, 21-22<br>13-14, 23-24<br>8° DIFFERENTIAL TRAVEL | 0.1 / .9 | N/A | 360 | 8 | 100 |

## FIGURE 15, CAT WISKER HEAD, SIDE ACTUATION AT 100mm

| CATALOG LISTING | CONTACT BLOCK DIAGRAM | NOMINAL TRAVELS AND RELATED TERMINALS ▬ - CONTACT CLOSED, ▭ - CONTACT OPEN, //// - CONTACT CLOSED DIFFERENTIAL TRAVEL | MAXIMUM OPERATING FORCE N / LB | MAXIMUM DISCONNECT FORCE N / LB | MAX OPERATE VEL M/S / in/S | MIN OPERATE VEL mm/S / in/S | MAX OPERATE FREQUENCY OPS/MIN |
|---|---|---|---|---|---|---|---|
| GL**01K<br>GL**07K | SNAP - ACTION CONTACTS SINGLE POLE<br>Zb | 26<br>21-22<br>13-14<br>12 DIFFERENTIAL TRAVEL | 1.3 / .3 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**03K<br>GL**33K | SLOW ACTING BREAK BEFORE MAKE<br>Zb | 26.5 38.1<br>21-22<br>13-14 | 1.3 / 0.3 | N/A | .5 / 19.7 | X11 / .43 | 100 |
| GL**04K<br>GL**34K | SLOW ACTING MAKE BEFORE BREAK<br>Zb | 26.5 38.1<br>21-22<br>13-14 | 1.3 / 0.3 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**05K<br>GL**35K | SLOW ACTING<br>2X | 38.1<br>21-22<br>13-14 | 1.3 / 0.3 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**06K<br>GL**36K | SLOW ACTING<br>2Y | 26.5<br>11-12<br>21-22 | 1.3 / 0.3 | N/A | .5 / 19.7 | 11 / .43 | 100 |
| GL**20K<br>GL**22K<br>GL**24K<br>GL**32K | SNAP ACTION CONTACTS DOUBLE POLE | 26<br>11-12, 21-22<br>13-14, 23-24<br>12 DIFFERENTIAL TRAVEL | 1.3 / 0.3 | N/A | .5 / 19.7 | 11 / .43 | 100 |

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THIRD ANGLE PROJECTION

SCALE -

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TOLERANCES
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| DIM. mm | TOL. mm/± | DIM. in | TOL. inch/± |
|---|---|---|---|
| NO PLACES | X | 1/.04 | X | 0.8/.03 |
| ONE PLACE | X.X | 0.4/.016 | X.XX | 0.381/.015 |
| TWO PLACES | X.XX | 0.15/.006 | X.XXX | 0.13/.005 |
| THREE PLACES | | | | |
| ANGLES | ±2° | | | |

SI METRIC ☒ US CUSTOMARY ☐

DESIGN UNITS

WEIGHT

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