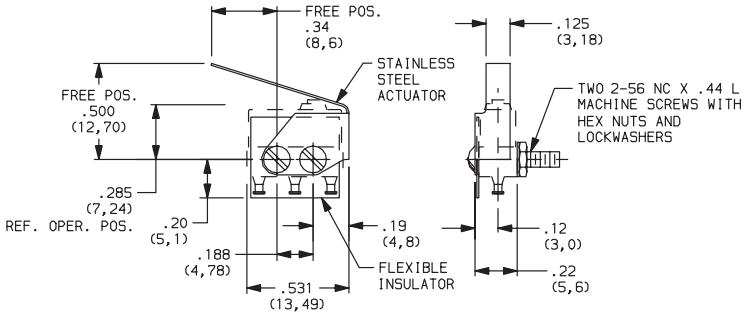
## AUXILIARY ACTUATORS

Easy to assemble auxiliary actuators for the MM Series provides the end-user with the capability to operate the switch with force not directly in line with the operating button. Actuators are available in either the plain-leaf or roller-leaf style. Each actuator kit consists of the stainless steel spring-leaf with an integral side mounting plate, flexible insulator, two (2) #2-56 x 7/16" roundhead screws, with lockwashers and hex nuts. Actuator and hardware are supplied unassembled. Specially formed auxiliary actuators are available, consult Customer Service Center.

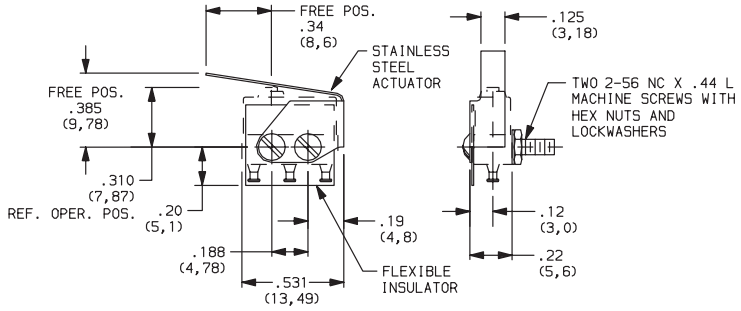
### ALS-1 LEAF




SWITCH CHARACTERISTICS

| | | |
|---|---|---|
| OPERATING FORCE (MAX) | oz / grams | 6 / 170 |
| RELEASE FORCE (MIN) | oz / grams | 2 / 56 |
| DIFFERENTIAL TRAVEL (MAX) | in / (mm) | .025 / (0,64) |
| PRETRAVEL (MAX) | in / (mm) | .110 / (2,79) |
| OVERTRAVEL (MIN) | in / (mm) | .015 / (0,38) |

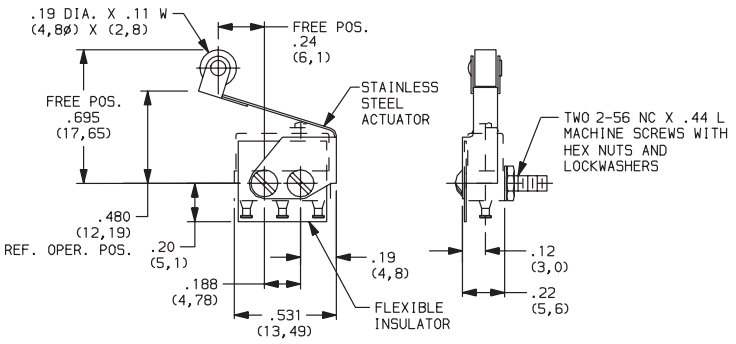
### ALS-2 LEAF (Low Motion)




SWITCH CHARACTERISTICS

| | | |
|---|---|---|
| OPERATING FORCE (MAX) | oz / grams | 7 / 198 |
| RELEASE FORCE (MIN) | oz / grams | 2 / 56 |
| DIFFERENTIAL TRAVEL (MAX) | in / (mm) | .025 / (0,64) |
| PRETRAVEL (MAX) | in / (mm) | .225 / (5,72) |
| OVERTRAVEL (MIN) | in / (mm) | .015 / (0,38) |

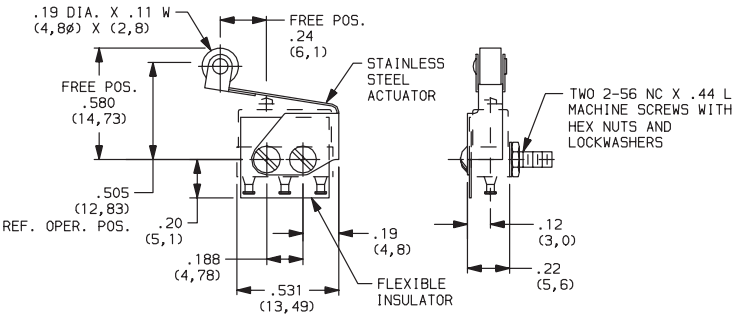
### AWS-1 LEAF ROLLER




SWITCH CHARACTERISTICS

| | | |
|---|---|---|
| OPERATING FORCE (MAX) | oz / grams | 6 / 170 |
| RELEASE FORCE (MIN) | oz / grams | 2 / 56 |
| DIFFERENTIAL TRAVEL (MAX) | in / (mm) | .025 / (0,64) |
| PRETRAVEL (MAX) | in / (mm) | .110 / (2,79) |
| OVERTRAVEL (MIN) | in / (mm) | .015 / (0,38) |

### AWS-2 LEAF ROLLER (Low Motion)




SWITCH CHARACTERISTICS

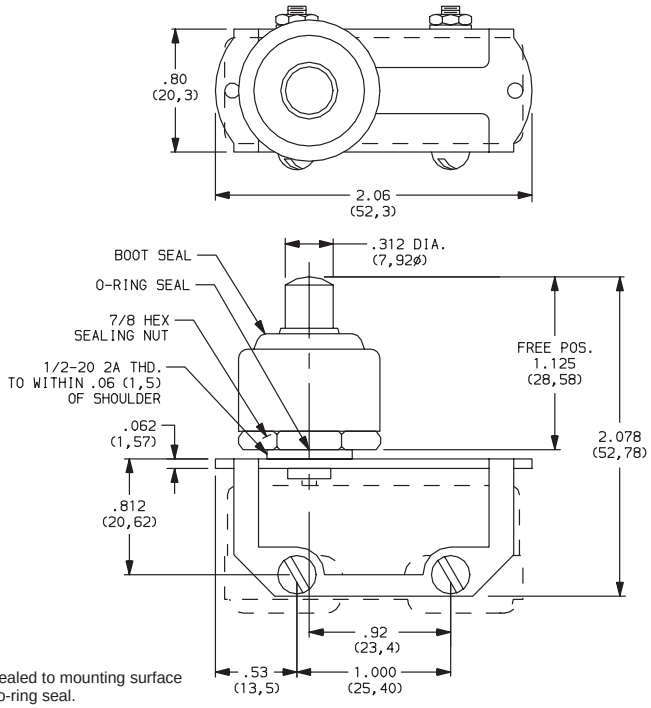
| | | |
|---|---|---|
| OPERATING FORCE (MAX) | oz / grams | 7 / 198 |
| RELEASE FORCE (MIN) | oz / grams | 2 / 56 |
| DIFFERENTIAL TRAVEL (MAX) | in / (mm) | .025 / (0,64) |
| PRETRAVEL (MAX) | in / (mm) | .225 / (5,72) |
| OVERTRAVEL (MIN) | in / (mm) | .015 / (0,38) |

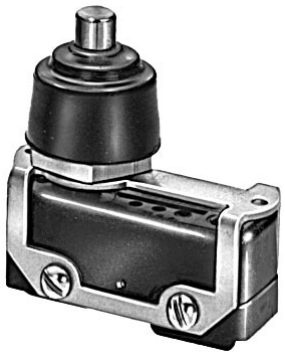
## AUXILIARY ACTUATORS

Basic precision HB Series switches, with any terminal style, can be used with these attachable actuators. As supplied, the actuator is not assembled to the switch; the switch must be ordered separately. The actuator can be assembled to the switch before mounting, or the actuator can be mounted on the panel or chassis and the switch installed after wiring. Assembly screws, nuts and lockwashers are furnished.

**BB-1** SEALED PLUNGER (For use with P0 actuator option.)

**BB-2** SEALED PLUNGER (For use with PS sealed actuator option.)

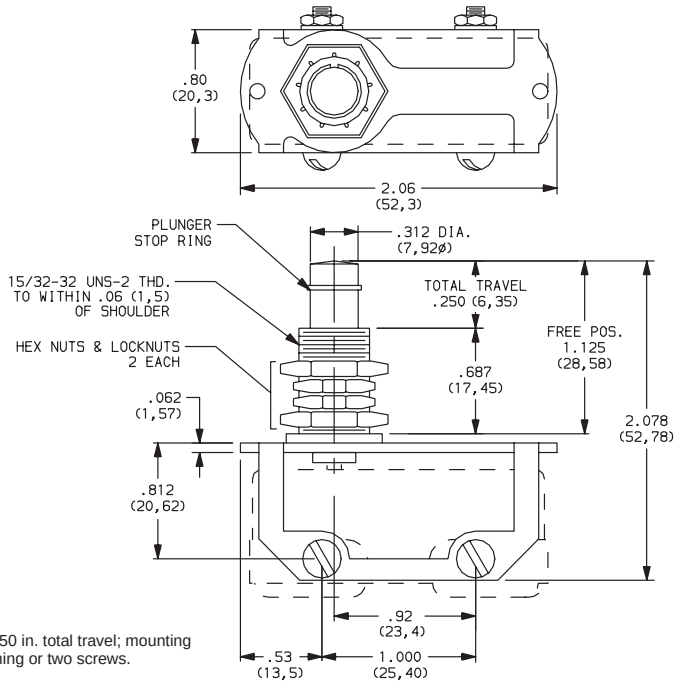


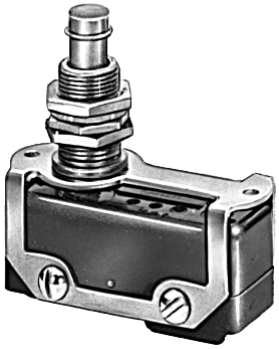



Actuator assembly sealed to mounting surface by flexible boot and o-ring seal.

**BJ-1** OVERTRAVEL PLUNGER (For use with P0 actuator option.)

**BJ-2** OVERTRAVEL PLUNGER (For use with PS sealed actuator option.)

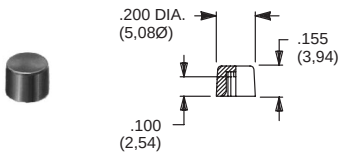


Provides up to .250 in. total travel; mounting by threaded bushing or two screws.

## CAPS

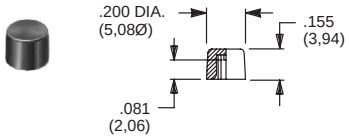
### EP & TP SERIES, .100" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 508101000 | WHITE |
| 508102000 | BLACK |
| 508103000 | RED |

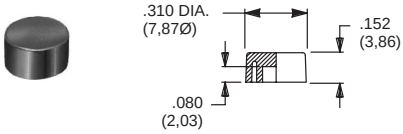
### TP SERIES, .100" DIA. PLUNGERS
(Recommended for S9 plunger)




**PART NO.**

| | |
|---|---|
| 538701000 | WHITE |
| 538702000 | BLACK |
| 538703000 | RED |

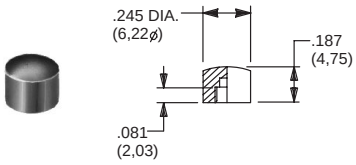
### EP & TP SERIES, .100" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 465801000 | WHITE |
| 465802000 | BLACK |
| 465803000 | RED |

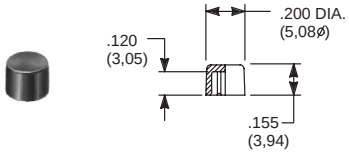
### 8600 & KM33 SERIES, .106" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 785101000 | WHITE |
| 785102000 | BLACK |
| 785103000 | RED |

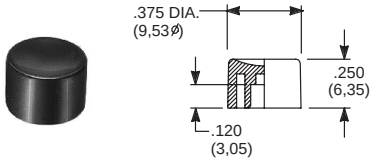
### 8020, 8060, E010, E020, KM11, L & TP SERIES, .122" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 708901000 | WHITE |
| 708902000 | BLACK |
| 708903000 | RED |

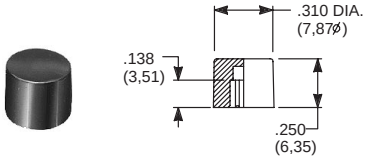
### 8020, 8060, E010, E020, KM11 & L SERIES, .122" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 752701000 | WHITE |
| 752702000 | BLACK |
| 752703000 | RED |

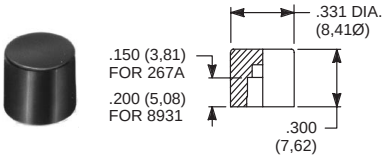
### 8020, 8060, E010, E020, KM11, L & TP SERIES .122" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 801801000 | WHITE |
| 801802000 | BLACK |
| 801803000 | RED |

### .157" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 267A01000 | WHITE |
| 267A02000 | BLACK |
| 267A03000 | RED |

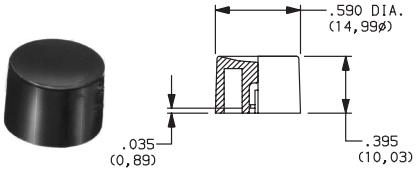
**FOR SERIES**
85X2T, 8534T
Models only

**PART NO.**

| | |
|---|---|
| 893101000 | WHITE |
| 893102000 | BLACK |
| 893103000 | RED |

**FOR SERIES**
85X1T, 8532T1,
8533T, 8534T1 Models only

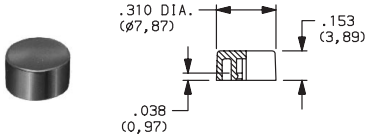
### 8020, 8050, E010, E020 & L SERIES, .122" DIA. SNAP-FITTING PLUNGERS




**PART NO.**

| | |
|---|---|
| 894001000 | WHITE |
| 894002000 | BLACK |
| 894003000 | RED |

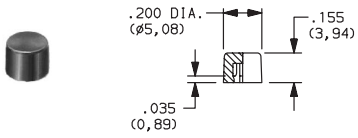
### EP11 & EP12 MODELS, .100 DIA. SNAP-FITTING PLUNGERS




**PART NO.**

| | |
|---|---|
| 585A01000 | WHITE |
| 585A02000 | BLACK |
| 585A03000 | RED |

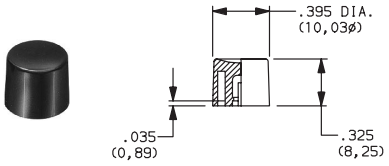
### EP11 & EP12 MODELS, .100 DIA. SNAP-FITTING PLUNGERS




**PART NO.**

| | |
|---|---|
| 785A01000 | WHITE |
| 785A02000 | BLACK |
| 785A03000 | RED |

### 8020, 8050, E010, E020 & L SERIES, .122" DIA. SNAP-FITTING PLUNGERS




**PART NO.**

| | |
|---|---|
| 894101000 | WHITE |
| 894102000 | BLACK |
| 894103000 | RED |

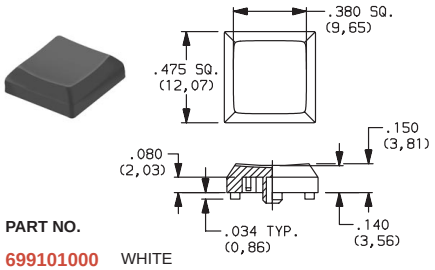
**MATERIAL**

Nylon. Finish: Gloss.

Special colors, custom markings available, consult Customer Service Center.

# CAPS

### KA SERIES, K1 CRUCIFORM ACTUATORS

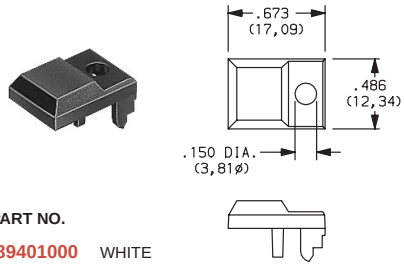



**PART NO.**

| | |
|---|---|
| 699101000 | WHITE |
| 699102000 | BLACK |
| 699103000 | RED |

**MATERIAL**
Nylon; Finish: Matte

### MP SERIES

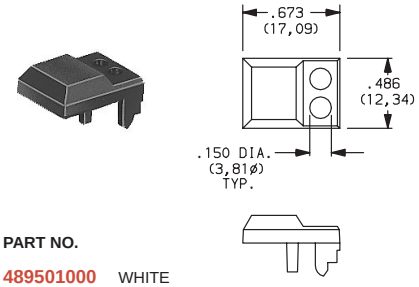



**PART NO.**

| | |
|---|---|
| 489401000 | WHITE |
| 489402000 | BLACK |
| 489403000 | RED |

**MATERIAL**
Polycarbonate-ABS blend; Finish: Matte

### MP SERIES WITH TWO LED

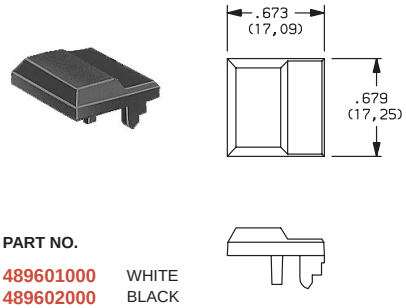



**PART NO.**

| | |
|---|---|
| 489501000 | WHITE |
| 489502000 | BLACK |
| 489503000 | RED |

**MATERIAL**
Polycarbonate-ABS blend; Finish: Matte

### MP SERIES WITHOUT LED

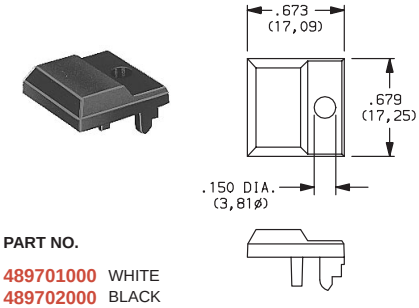



**PART NO.**

| | |
|---|---|
| 489601000 | WHITE |
| 489602000 | BLACK |
| 489603000 | RED |

**MATERIAL**
Polycarbonate-ABS blend; Finish: Matte

### MP SERIES WITH LED

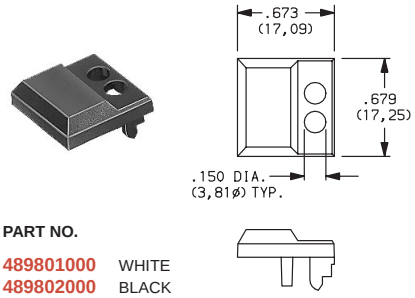



**PART NO.**

| | |
|---|---|
| 489701000 | WHITE |
| 489702000 | BLACK |
| 489703000 | RED |

**MATERIAL**
Polycarbonate-ABS blend; Finish: Matte

### MP SERIES WITH TWO LED

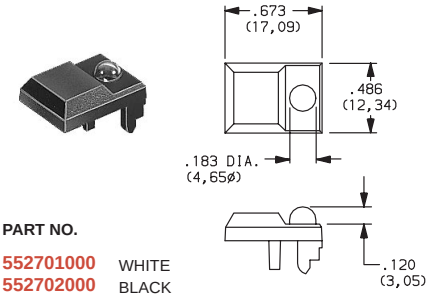



**PART NO.**

| | |
|---|---|
| 489801000 | WHITE |
| 489802000 | BLACK |
| 489803000 | RED |

**MATERIAL**
Polycarbonate-ABS blend; Finish: Matte

### MP SERIES, ANTI-STATIC WITH TRANSPARENT LENS

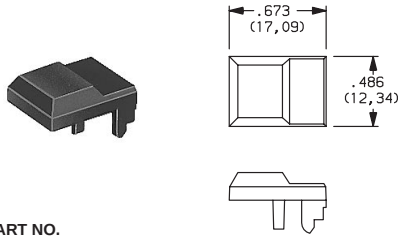



**PART NO.**

| | |
|---|---|
| 552701000 | WHITE |
| 552702000 | BLACK |
| 552703000 | RED |

**MATERIAL**
Polycarbonate-ABS blend; Finish: Matte

### MP SERIES

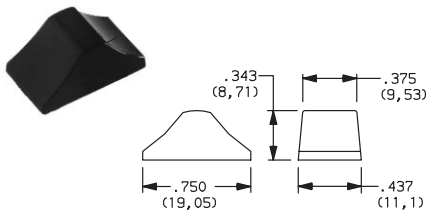



**PART NO.**

| | |
|---|---|
| 489301000 | WHITE |
| 489302000 | BLACK |
| 489303000 | RED |

**MATERIAL**
Polycarbonate-ABS blend; Finish: Matte

### S SERIES, 03 ACTUATOR

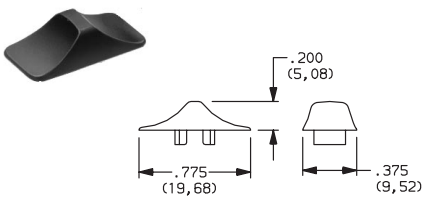



**PART NO.**

| | |
|---|---|
| 121000101 | WHITE |
| 121000102 | BLACK |
| 121000103 | RED |

**MATERIAL**
6/6 Nylon; Finish: Gloss

### S SERIES, C1-C9 ACTUATORS

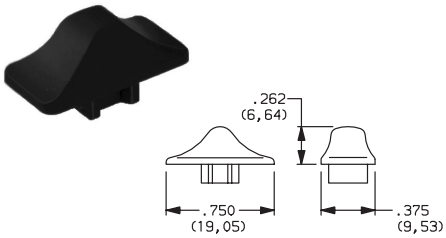



**PART NO.**

| | |
|---|---|
| 121160100 | WHITE |
| 121160200 | BLACK |
| 121160300 | RED |

**MATERIAL**
6/6 NYLON; Finish: Matte

### L SERIES

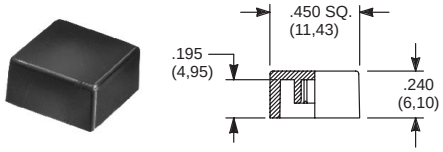



**PART NO.**

| | |
|---|---|
| 120100602 | BLACK |

**MATERIAL**
6/6 Nylon; Finish: Matte

### .122" DIA. PLUNGERS




GLOSS

**PART NO.**

| | |
|---|---|
| 484601000 | WHITE |
| 484602000 | BLACK |
| 484603000 | RED |

**FOR SERIES**
8020, 8060, E010, E020, KM11, L, TP.

MATTE

**PART NO.**

| | |
|---|---|
| 798201000 | WHITE |
| 798202263 | BLACK |
| 798203000 | RED |

**FOR SERIES**
8020, 8060, E010, E020, KM11, L, TP.

Special colors, custom markings available, consult Customer Service Center.

# C&K Hardware

## CAPS

### 7000, 9000 & E SERIES TOGGLE CAPS

**PART NO.**

| | |
|---|---|
| 896801000 | WHITE |
| 896802000 | BLACK |
| 896803000 | RED |

Material: Polyethylene

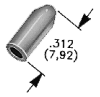
### 7000 SERIES TOGGLE CAPS

**PART NO.**

| | |
|---|---|
| 763701000 | WHITE |
| 763702000 | BLACK |
| 763703000 | RED |

Material: Vinyl

### 7000, 9000, E & ET SERIES TOGGLE CAPS

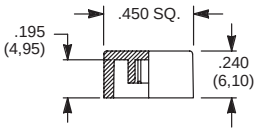



**PART NO.**

| | |
|---|---|
| 706201000 | WHITE |
| 706202000 | BLACK |
| 706203000 | RED |

Material: Vinyl

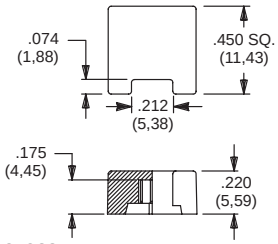
### 8500 SERIES, .157" DIA. PLUNGERS




**PART NO.**

| | |
|---|---|
| 448901000 | WHITE |
| 448902000 | BLACK |
| 448903000 | RED |

### 8020 & 8060 SERIES, .122" DIA. PLUNGERS

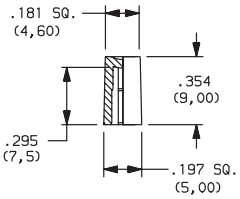



MATTE GLOSS

**PART NO.** **PART NO.**

| | | |
|---|---|---|
| 459701000 | 476801000 | WHITE |
| 459702000 | 476802000 | BLACK |
| 459703000 | 476803000 | RED |

### PN SERIES, .110" SQ. PLUNGERS

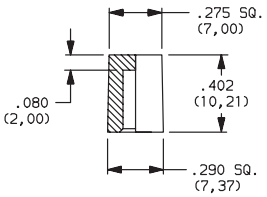



**PART NO.**

| | |
|---|---|
| 979A01000 | WHITE |
| 979A02000 | BLACK |
| 979A03000 | RED |

**MATERIAL**
ABS

### PN SERIES, .130" SQ. PLUNGERS

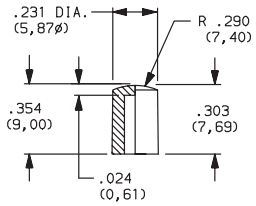



**PART NO.**

| | |
|---|---|
| 980A01000 | WHITE |
| 980A02000 | BLACK |
| 980A03000 | RED |

**MATERIAL**
ABS

### PN SERIES, .110" SQ. PLUNGERS

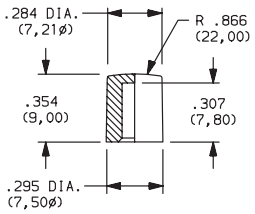



**PART NO.**

| | |
|---|---|
| 981A01000 | WHITE |
| 981A02000 | BLACK |
| 981A03000 | RED |

**MATERIAL**
ABS

### PN SERIES, .130" SQ. PLUNGERS

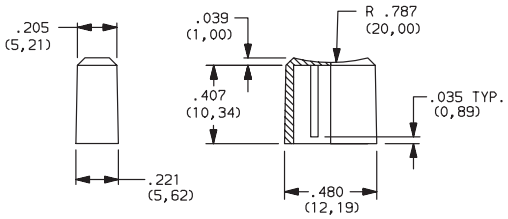



**PART NO.**

| | |
|---|---|
| 982A01000 | WHITE |
| 982A02000 | BLACK |
| 982A03000 | RED |

**MATERIAL**
ABS

### PN SERIES, .130" SQ. PLUNGERS




**PART NO.**

| | |
|---|---|
| 983A01000 | WHITE |
| 983A02000 | BLACK |
| 983A03000 | RED |

**MATERIAL**
ABS

**MATERIAL**

Nylon. Finish: Matte or gloss.

Special colors, custom markings available, consult Customer Service Center.

## CODED SWITCHES – BLANK (INACTIVE) SECTIONS

**3U SERIES BLANK SECTION, .302" THK.**
**(Replaces active section.)**

**PART NO.**

| | |
|---|---|
| 123B002000 | BLACK |
| 123B009000 | GRAY |

**3P SERIES BLANK SECTION, .300" THK.**

**PART NO.**

| | |
|---|---|
| 663702000 | BLACK |
| 663709000 | GRAY |

**S2 SERIES BLANK SECTION, .315" THK.**

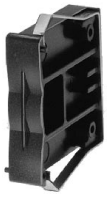
2127

2290

**PART NO.**

| | |
|---|---|
| 212702000 | PLAIN-BLACK |
| 229002000 | W/RIB-BLACK |

**3 SERIES FRONT MOUNT, TYPE 0 & 3,**
**.315" THK.**



**PART NO.**

| | |
|---|---|
| 413602000 | W/RIB-BLACK |
| 413609000 | W/RIB-GRAY |
| 400502000 | W/RIB & W/OUT SPRINGS-BLACK |
| 400509000 | W/RIB & W/OUT SPRINGS GRAY |

**3 SERIES FRONT MOUNT, TYPE 0 & 3,**
**.315" THK.**

**PART NO.**

| | |
|---|---|
| 413502000 | PLAIN-BLACK |
| 413509000 | PLAIN-GRAY |
| 400702000 | PLAIN W/OUT SPRINGS-BLACK |
| 400709000 | PLAIN W/OUT SPRINGS GRAY |

**3 SERIES REAR MOUNT, TYPE 1,**
**.350" THK.**

4006

4008

**PART NO.**

| | |
|---|---|
| 400602000 | W/RIB-BLACK |
| 400609000 | W/RIB-GRAY |
| 400802000 | PLAIN-BLACK |
| 400809000 | PLAIN-GRAY |

**3 SERIES REAR MOUNT, TYPE 2,**
**.350" THK.**

4734

4733

**PART NO.**

| | |
|---|---|
| 473402000 | W/RIB-BLACK |
| 473409000 | W/RIB-GRAY |
| 473302000 | PLAIN-BLACK |
| 473309000 | PLAIN-GRAY |

## CODED SWITCHES – END PLATES

### S2 SERIES REAR MOUNT, MOUNTING STYLE S2S WITH .157" (4MM) FLANGE

**PART NO.**

| | | |
|---|---|---|
| 211702000 | BLACK | Two required for complete assembly. |
| 211709000 | GRAY | |

### S2 SERIES REAR MOUNT, MOUNTING STYLE S2R WITH .315" (8MM) FLANGE

**PART NO.**

| | | |
|---|---|---|
| 211802000 | BLACK | Two required for complete assembly. |
| 211809000 | GRAY | |

### S2 SERIES REAR MOUNT, MOUNTING STYLE S2T WITH NO FLANGE

**PART NO.**

| | | |
|---|---|---|
| 212002000 | BLACK | Two required for complete assembly. |
| 212009000 | GRAY | |

### S2 SERIES FRONT MOUNT, MOUNTING STYLE S2F

**PART NO.**

| | | |
|---|---|---|
| 211902000 | BLACK | Two required for complete assembly. |
| 211909000 | GRAY | |

### 3U SERIES

LEFT-with hole

RIGHT-with pin

**PART NO.**

| | | |
|---|---|---|
| 113B02000 | LEFT-BLACK | |
| 113B09000 | LEFT-GRAY | |
| 114B02000 | RIGHT-BLACK | One left and one right piece required for complete assembly. |
| 114B09000 | RIGHT-GRAY | |

### 3 SERIES FRONT MOUNT, TYPE 3

**PART NO.**

| | | |
|---|---|---|
| 655702000 | BLACK | Two required for complete assembly. |
| 655709000 | GRAY | |

### 3 SERIES FRONT MOUNT, TYPE 0

**PART NO.**

| | | |
|---|---|---|
| 413402000 | BLACK | Two required for complete assembly. |
| 413409000 | GRAY | |

### 3 SERIES REAR MOUNT, TYPE 1

**PART NO.**

| | | |
|---|---|---|
| 400402000 | BLACK | Two required for complete assembly. |
| 400409000 | GRAY | |

### 3 SERIES REAR MOUNT, TYPE 2

**PART NO.**

| | | |
|---|---|---|
| 473202000 | BLACK | Two required for complete assembly. |
| 473209000 | GRAY | |

### 3P SERIES

LEFT-with hole

RIGHT-with pin

**PART NO.**

| | | |
|---|---|---|
| 623502000 | LEFT-BLACK | |
| 623509000 | LEFT-GRAY | |
| 623602000 | RIGHT-BLACK | One left and one right piece required for complete assembly. |
| 623609000 | RIGHT-GRAY | |

## CODED SWITCHES – SPACERS

**3P SERIES, .100" THK.**
**(Makes section pitch .400")**

**PART NO.**

663602000 BLACK
663609000 GRAY

**3 SERIES FRONT MOUNT-FITS TYPE 0 & 3,**
**.185" THK. (Makes section pitch .500")**

**PART NO.**

410602000 BLACK
410609000 GRAY

**3 SERIES FRONT MOUNT, FITS TYPE 0 & 3,**
**.078" THK. (Makes section pitch 10mm)**

**PART NO.**

410802000 BLACK
410809000 GRAY

**3 SERIES REAR MOUNT, FITS TYPE 1,**
**.150" THK. (Makes section pitch .500")**

**PART NO.**

410702000 BLACK
410709000 GRAY

**3 SERIES REAR MOUNT, FITS TYPE 2,**
**.150" THK. (Makes section pitch .500")**

**PART NO.**

473602000 BLACK
473609000 GRAY

**HARDWARE FOR FIELD ASSEMBLY-3 SERIES ONLY.**

SCREWS FOR FIELD ASSEMBLY OF THUMBWHEEL SWITCHES
(2 screws needed per assembly + 403500000 nuts)

| SCREW PART NUMBER (0–80 UNF THD. SIZE) | NUMBER OF SECTIONS IN ASSEMBLY | | | | |
|---|---|---|---|---|---|
| | FRONT MOUNTING | | | REAR MOUNTING | |
| | MTG. STYLE – 00, 30 | MTG. STYLE – 03, 33 | MTG. STYLE – 04, 34 | MTG. STYLE – 10, 20 | MTG. STYLE – 14, 24 |
| 412700000 | 1 – 2 | 1 | 1 | 1 – 2 | 1 |
| 412701000 | 3 – 4 | 2 – 3 | 2 | 3 | 2 |
| 412702000 | 5 – 7 | 4 – 5 | 3 – 4 | 4 – 6 | 3 – 4 |
| 412703000 | 8 – 10 | 6 – 8 | 5 – 6 | 7 – 9 | 5 – 6 |
| 412704000 | 11 – 13 | 9 – 10 | 7 – 8 | 10 – 12 | 7 – 8 |
| 412705000 | 14 – 16 | 11 – 13 | 9 – 10 | 13 – 15 | 9 – 10 |

See 3 series mounting styles, pages J-11 thru J-14.

**NUT**

**PART NO.**

403500000

Two nuts required per assembly and screws.

**NUT DRIVER (For 403500000 nut)**

**PART NO.**

406100652

Not required for assembly.
Not supplied with sample pieces.

## FIXING SPANNERS

**RAFI 15.2mm, Lumotast 75 & 8.1mm**

**PART NO.**
5.58002.0190000

**DESCRIPTION**
Tool used to secure switch to panel.
Tightens threaded fixing ring.

**PART NO.**
5.58002.0270000

**DESCRIPTION**
Tool used to secure switch to panel.
Tightens threaded fixing ring.

**RAFIX 16**

**PART NO.**
5.58002.0340000

**DESCRIPTION**
Tool used to secure switch to panel.
Tightens hexagon nut.

## FRAMES

**7000 & E SERIES**
**J11, J21 ACTUATORS**

Material: Spring Steel.

**PART NO.**

| | |
|---|---|
| 764500223 | BRIGHT CHROME |
| 764500252 | SATIN CHROME |
| 764500746 | BLACK ENAMEL |
| 764500747 | WHITE ENAMEL |
| 764601106 | RETAINING SPRING |

**7000 & E SERIES**
**J16, J26 ACTUATORS**

Material: Nylon.
Finish: Matte.

**PART NO.**

| | |
|---|---|
| 459101000 | WHITE |
| 459102000 | BLACK |
| 459103000 | RED |

**7000, 8020, 8060 & 8500 SERIES**
**J51, J61, J81, J83, J85, J86, J91 ACTUATORS**

Material: Nylon.
Finish: Matte.

**PART NO.**

| | |
|---|---|
| 615601000 | WHITE |
| 615602263 | BLACK |
| 615603000 | RED |

**J19 ACTUATOR**

Material: Spring Steel.

**PART NO.**

| | |
|---|---|
| 781000223 | BRIGHT CHROME |
| 781000252 | SATIN CHROME |
| 781000746 | BLACK ENAMEL |
| 781000747 | WHITE ENAMEL |

**7000 & 9000 SERIES**
**J37, J47, J57 ACTUATORS**

Material: Spring Steel.

**PART NO.**

| | |
|---|---|
| 445400223 | BRIGHT CHROME |
| 445400252 | SATIN CHROME |
| 445400746 | BLACK ENAMEL |
| 445400747 | WHITE ENAMEL |

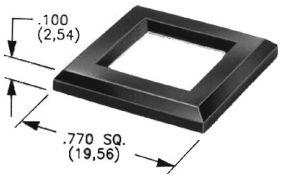
**7000, 8020, 8060 & 8500 SERIES**
**J52, J62, J82, J84, J92 ACTUATORS**

Material: Nylon.
Finish: Matte.

**PART NO.**

| | |
|---|---|
| 613301000 | WHITE |
| 613302263 | BLACK |
| 613303000 | RED |

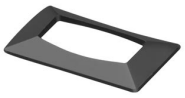
**J50, J60, J80, J83, J90 ACTUATORS**




Material: Nylon.
Finish: Matte or Gloss.

| MATTE | GLOSS | |
|---|---|---|
| **PART NO.** | **PART NO.** | |
| 486701000 | 486801000 | WHITE |
| 486702000 | 486802000 | BLACK |
| 486703000 | 486803000 | RED |

**7000 SERIES**
**J76 ACTUATORS**



Material: Nylon.
Finish: Matte.

**PART NO.**

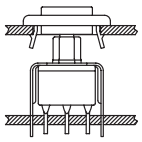
| | |
|---|---|
| 724A01000 | WHITE |
| 724A02000 | BLACK |
| 724A03000 | RED |

Special colors, custom markings available, consult Customer Service Center.

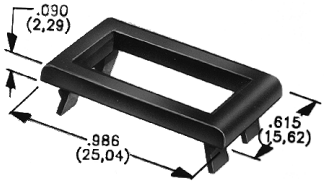
# FRAMES—SEPARATE SNAP-IN

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.

**TYPICAL APPLICATION**

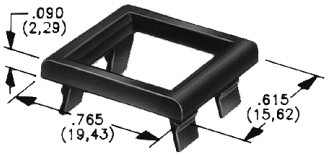


**7000 & E SERIES**
**J1, J2 ACTUATORS**




| .047" (1,19) PANEL THK. | .062" (1,57) PANEL THK. | .090" (2,29) PANEL THK. | .125" (3,18) PANEL THK. | |
|---|---|---|---|---|
| **PART NO.** | **PART NO.** | **PART NO.** | **PART NO.** | |
| 452901000 | 452701000 | 452801000 | 452601000 | WHITE |
| 452902263 | 452702263 | 452802263 | 452602263 | BLACK |
| 452903000 | 452703000 | 452803000 | 452603000 | RED |

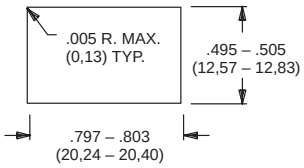
**7000, 8020, 8060, 8500, E, E010, E020 & TP SERIES**
**J50, J60, J80, J90 ACTUATORS**



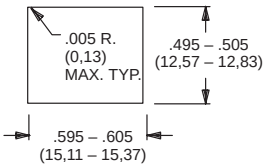

| .047" (1,19) PANEL THK. | .062" (1,57) PANEL THK. | .090" (2,29) PANEL THK. | .125" (3,18) PANEL THK. | |
|---|---|---|---|---|
| **PART NO.** | **PART NO.** | **PART NO.** | **PART NO.** | |
| 432501000 | 432601000 | 432701000 | 432801000 | WHITE |
| 432502263 | 432602263 | 432702263 | 432802263 | BLACK |
| 432503000 | 432603000 | 432703000 | 432803000 | RED |

**PANEL MOUNTING**

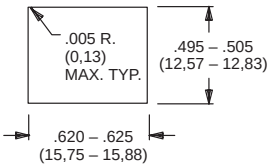
4529, 4527, 4528, 4526




4325, 4326



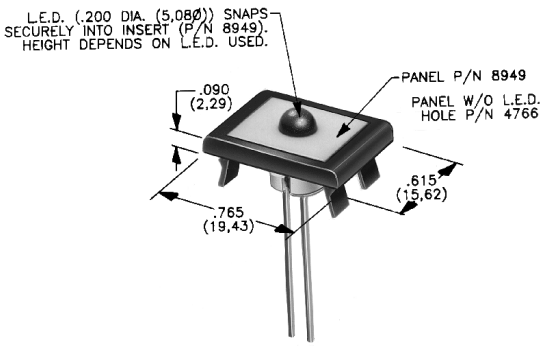

4327, 4328




PANEL INSERTS

(WILL FIT SEPARATE SNAP-IN FRAMES FOR J50, J60, J90 ACTUATORS).

Above frames (part nos. 432XXXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. LED not included, see page L-17 for LED information and recommendations.

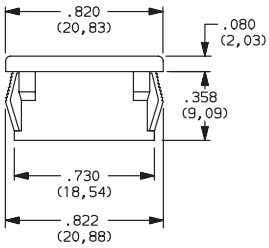


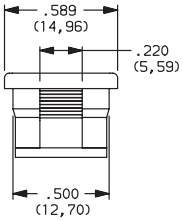

| PANEL INSERT WITH HOLE FOR LED | BLANK PANEL INSERT WITHOUT HOLE FOR LED | |
|---|---|---|
| **PART NO.** | **PART NO.** | |
| 894901000 | 476601000 | WHITE |
| 894902000 | 476602000 | BLACK |
| 894903000 | 476603000 | RED |

Special colors, custom markings available, consult Customer Service Center.

## INSERT

**D SERIES**




**PART NO.**
057190200

**MATERIAL**
Zinc nylon 6/6
Finish: Matte

## KEYS

4 TUMBLER

**PART NO.** (ONE KEY)
115140126

**MATERIAL**
Brass; Finish: Nickel plate

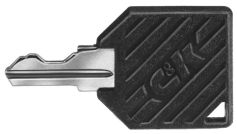
**FOR SERIES**
A, H, P, W, Y, YL
Key Code: A126

5 TUMBLER

**PART NO.** (ONE KEY)
115441001

**MATERIAL**
Brass; Finish: Nickel plate

**FOR SERIES**
A, BY, GY, H, Y, YL
Key Code: D001



4 TUMBLER

**PART NO.** (ONE KEY)

| | |
|---|---|
| 11599112601 | WHITE |
| 11599112602 | BLACK |
| 11599112603 | RED |
| 11599112600 | BEIGE |

**MATERIAL**
Brass; Finish: Nickel plate;
6/6 Nylon insert molded head

**FOR SERIES**
A, H, P, W, Y, YL
Key Code: A126

5 TUMBLER

**PART NO.** (ONE KEY)

| | |
|---|---|
| 11622100101 | WHITE |
| 11622100102 | BLACK |
| 11622100103 | RED |
| 11622100100 | BEIGE |

**MATERIAL**
Brass; Finish: Nickel plate;
6/6 Nylon insert molded head

**FOR SERIES**
A, BY, GY, H, Y, YL
Key Code: D001

**A, H, W, Y & YL SERIES**
**KEY CODE: AAAA**

**PART NO.** (ONE KEY)
1110801

**MATERIAL**
Zinc alloy;
Finish: Chrome plate

**PF, PL & PM SERIES**
**KEY CODE: 041**

**PART NO.** (ONE KEY)

| | |
|---|---|
| 16916004101 | WHITE |
| 16916004102 | BLACK |
| 16916004103 | RED |
| 16916004100 | BEIGE |

**MATERIAL**
Brass; Finish: Nickel plate;
6/6 Nylon insert molded head

**YF & YM SERIES**
**KEY CODE: 0029**

**PART NO.** (ONE KEY)
119091029

**MATERIAL**
Brass; Finish: Nickel plate

**BY, GY SERIES**
**KEY CODE: 3434**

**PART NO.** (ONE KEY)
11630CKBYST

**MATERIAL**
Zinc alloy;
Finish: Chrome plate

**A, BY, H, P, W, Y & YL SERIES**
**Key Code: A126**

**PART NO.** (ONE KEY)

| | |
|---|---|
| 16564112601 | WHITE |
| 16564112602 | BLACK |
| 16564112603 | RED |
| 16564112600 | BEIGE |

**MATERIAL**
Brass; Finish: Nickel plate;
6/6 Nylon insert molded head

**RAFI LUMOTAST 75**

**PART NO.** (ONE KEY)
5.58004.7210000

**RAFIX 16**

**PART NO.** (ONE KEY)
5.58007.0010000

## LAMP EXTRACTORS

**PART NO.**
1.90900.0010000

**FOR SERIES**
RAFI 8.1 mm Illuminated Pushbutton

**DESCRIPTION**
Tool used to remove lamps or LEDs from switches.

**PART NO.**
1.90900.0020000

**FOR SERIES**
RAFI Lumotast® 75

**DESCRIPTION**
Tool used to remove lamps or LEDs from switches.

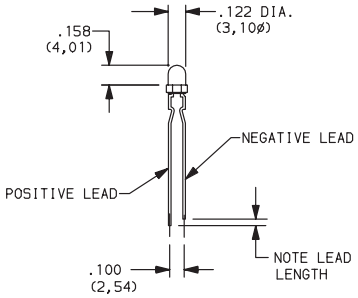
**PART NO.**
1.90900.0030000

**FOR SERIES**
RAFIX 16

**DESCRIPTION**
Tool used to remove lamps or LEDs from switches.

## LEDS & FILAMENT LAMPS

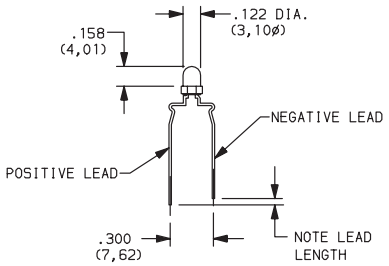
**MP SERIES**
**02, R2 & S2 CAP STYLES**




**PART NO.**

| | |
|---|---|
| 498703615 | RED |
| 498705615 | YELLOW |
| 498706615 | GREEN |

**MP SERIES**
**01, A1, A2 & S1 CAP STYLES**




**PART NO.**

| | |
|---|---|
| 498703614 | RED |
| 498705614 | YELLOW |
| 498706614 | GREEN |

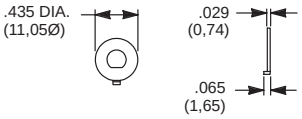
| LED PART NUMBER | DESCRIPTION | COLOR | BASE | VOLTAGE $U_B$ | FORWARD CURRENT $I_F$ | FOR SERIES | LAMP EXTRACTOR PART NUMBER |
|---|---|---|---|---|---|---|---|
| 1.90691.0260000<br>1.90691.0270000<br>1.90691.0280000 | 1 Chip LED | Red<br>Green<br>Yellow | Bi-pin T1 | DC* | 10 mA | 8.1mm Illuminated Pushbutton | 1.90900.0010000 |
| 1.90692.0010000<br>1.90692.0020000<br>1.90692.0030000 | 1 Chip LED | Red<br>Green<br>Yellow | T4.5 | DC* | 10 mA | Lumotast® 75 | 1.90900.0010000 |
| 1.90692.0450000<br>1.90692.0460000<br>1.90692.0470000 | 6 chip LED | Red<br>Green<br>Yellow | W 2x4.6 d | 24 +10%<br>AC/DC<br>max. | 12 mA | RAFIX 16 | 1.90900.0030000 |

*Must install a suitable external series resistor.

| FILAMENT LAMP | PART NUMBER | DESCRIPTION | BASE | RATED VOLTAGE | RATED CURRENT (A or mA) | RATED POWER (W) | AVERAGE OPERATING LIFE (Hrs.) | FOR SERIES | LAMP EXTRACTOR PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|
| | 1.90100.0210000<br>1.90100.0220000<br>1.90100.0230000 | Miniature Telephone Filament Lamp | T 4.5 | 6 V<br>12 V<br>24 V | 0.05 A<br>0.04 A<br>0.02 A | 0.3<br>0.48<br>0.48 | 10,000<br>10,000<br>8,000 | Lumotast® 75 | 1.90900.0020000 |
| | 1.90120.0130000<br>1.90120.0120000<br>1.90120.0110000<br>1.90120.0090000 | Filament Lamp | W 2x4.6 d | 6 V<br>12 V<br>24 V<br>60 V | 0.20 A<br>0.08 A<br>0.04 A<br>0.02 A | 1.2<br>1.2<br>1.2<br>1.2 | 20,000<br>15,000<br>7,000<br>3,300 | RAFIX 16 | 1.90900.0030000 |
| | 1.90180.4710000<br>1.90180.4720000<br>1.90180.4730000 | Indicator Lamp T1 | Bi-pin | 6 V<br>12/14 V<br>24/28 V | 0.05 A<br>0.03 A<br>0.016 A | 0.3<br>0.4-.56<br>0.4-.56 | 50,000<br>20,000<br>5,000 | 8.1 mm Illum. Pushbuttons | 1.90900.0010000 |

## LOCKING RINGS

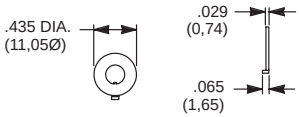
**T & TP SERIES**
**FITS 10-48 BUSHING**




**PART NO.**

| | |
|---|---|
| 465000201 | NICKEL PLATED WITH FLAT |

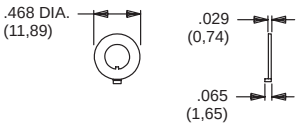
**7000, 8020, 8060, 8500, 9000, M, T & TP SERIES**
**FITS 1/4-40 BUSHING**




**PART NO.**

| | |
|---|---|
| 700701201 | NICKEL PLATED WITH KEYWAY |
| 700701264 | BLACK WITH KEYWAY |

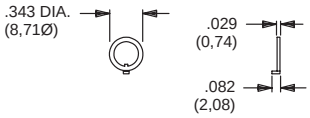
**T & TP SERIES**
**FITS 10-48 BUSHING**




**PART NO.**

| | |
|---|---|
| 465101201 | NICKEL PLATED WITH KEYWAY |

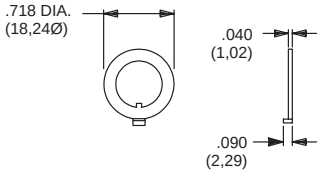
**7000, 8020, 8060, 8500, 9000, M, T & TP SERIES**
**FITS 1/4-40 BUSHING**




**PART NO.**

| | |
|---|---|
| 753700201 | NICKEL PLATED WITH KEYWAY |
| 753700264 | BLACK WITH KEYWAY |

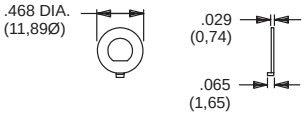
**7000, 8500 & 9000 SERIES**
**FITS 15/32 BUSHING**




**PART NO.**

| | |
|---|---|
| 707200201 | NICKEL PLATED WITH KEYWAY |
| 707200264 | BLACK WITH KEYWAY |

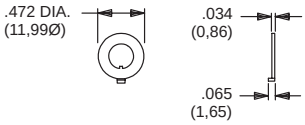
**7000, 8020, 8060, 8500, 9000, M, T & TP SERIES**
**FITS 1/4-40 BUSHING**




**PART NO.**

| | |
|---|---|
| 757200201 | NICKEL PLATED WITH FLAT |
| 757200264 | BLACK WITH FLAT |

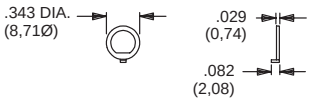
**7000, 8020 & 8060 SERIES**
**FITS M6P2 METRIC BUSHING**




**PART NO.**

| | |
|---|---|
| 791800201 | NICKEL PLATED WITH KEYWAY |
| 791800264 | BLACK WITH KEYWAY |

**7000, 8020, 8060, 8500, 9000, M, T & TP SERIES**
**FITS 1/4-40 BUSHING**




**PART NO.**

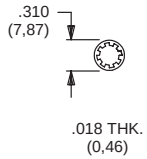
| | |
|---|---|
| 757300201 | NICKEL PLATED WITH FLAT |
| 757300264 | BLACK WITH FLAT |

**MATERIAL**

Brass, nickel plated standard. Other finishes available, consult Customer Service Center.

## LOCKWASHERS

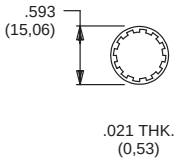
**FITS 10-48 BUSHING**




**PART NO.**

465200202 NICKEL PLATED

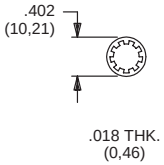
**FITS 15/32 BUSHING**




**PART NO.**

700302202 NICKEL PLATED
700302264 BLACK

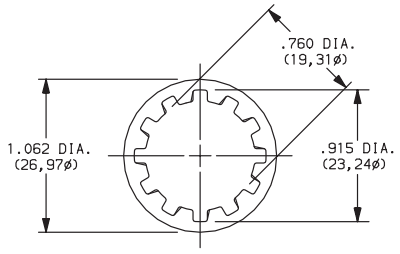
**FITS 1/4-40 BUSHING**




**PART NO.**

700303202 NICKEL PLATED
700303264 BLACK

**A, BY, GY, H, W, Y & YL SERIES**
**FITS 3/4 DIA. BUSHING**

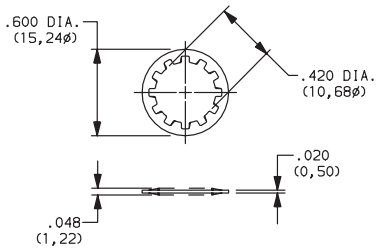


**PART NO.**

175050200 NICKEL PLATED

**MATERIAL**
Steel; Finish: Zinc plate

**A SERIES**
**FITS 3/8 DIA. THREAD**




**PART NO.**

472800202

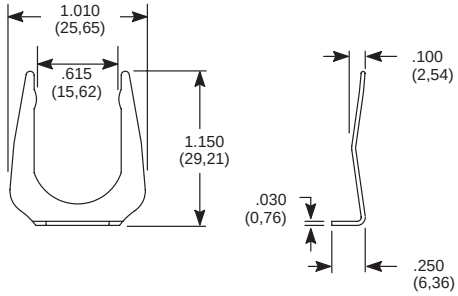
**MATERIAL**
Steel; Finish: Zinc plate

**MATERIAL**

Steel, nickel plated standard. Other finishes available, consult Customer Service Center.

## MOUNTING CLIP

**A, BY, GY, H, P, W, Y & YL SERIES**



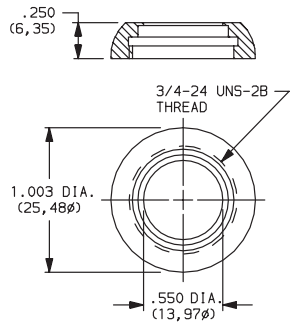

**PART NO.**

175050300

**MATERIAL**
Steel; Finish: Nickel or bright zinc plate

## NUTS (DRESS)

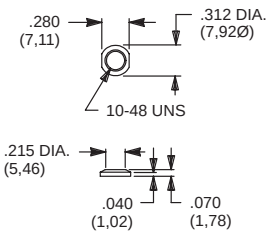
**Y, H & A SERIES**




**PART NO.**

| | |
|---|---|
| 531300201 | NICKEL PLATE |
| 531300535 | POLISHED NICKEL PLATE |
| 175052745 | GLOSS BLACK PLATE |

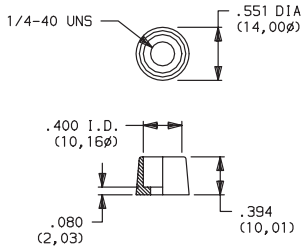
**T & TP SERIES**




**PART NO.**

| | |
|---|---|
| 465701201 | NICKEL PLATED |
| 465701264 | BLACK |

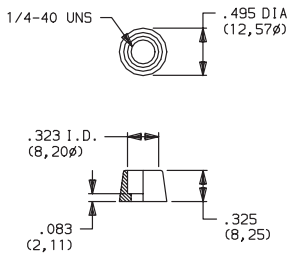
**8020, 8060, 8500 & TP SERIES**




**PART NO.**

| | |
|---|---|
| 580700201 | NICKEL PLATED |

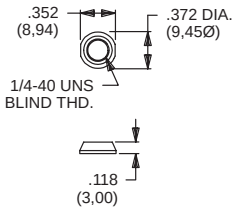
**8020, 8060, E010 & TP SERIES**




**PART NO.**

| | |
|---|---|
| 702501201 | NICKEL PLATED |
| 702501264 | BLACK |

**7000, 8020, 8060, 8500, 9000, E, E010, T & TP SERIES**

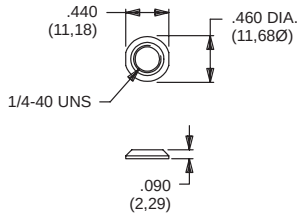



**PART NO.**

| | |
|---|---|
| 709901201 | NICKEL PLATED |
| 709901215 | SATIN CHROME |
| 709901264 | BLACK |

**FOR SERIES**
7000, 8020, 8060, 8500, 9000, E, E010, T, TP

**7000, 8020, 8060, 8500, 9000, E, E010, T & TP SERIES**

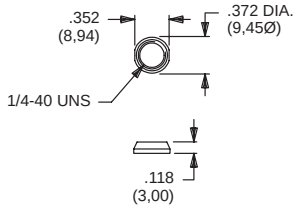



**PART NO.**

| | |
|---|---|
| 776001201 | NICKEL PLATED |
| 776002231 | BLACK |

**FOR SERIES**
7000, 8020, 8060, 8500, 9000, E, E010, T, TP

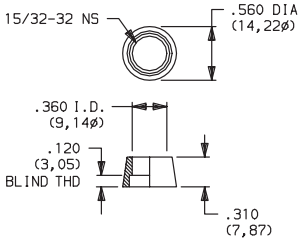
**7000, 8020, 8060, 8500, 9000, E, E010, T & TP SERIES**




**PART NO.**

| | |
|---|---|
| 780701201 | NICKEL PLATED |
| 780701215 | SATIN CHROME |
| 780701264 | BLACK |

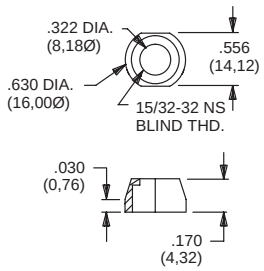
**8500 SERIES**




**PART NO.**

| | |
|---|---|
| 498800201 | NICKEL PLATED |

**7000 SERIES, T2P ACTUATOR**




**PART NO.**

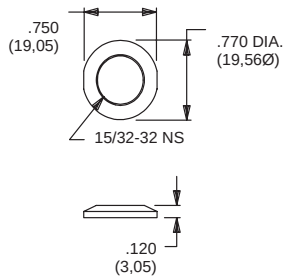
| | |
|---|---|
| 605300201 | NICKEL PLATED |

**MATERIAL**

Brass, nickel plated standard. Other finishes available, consult Customer Service center.

## NUTS (DRESS)

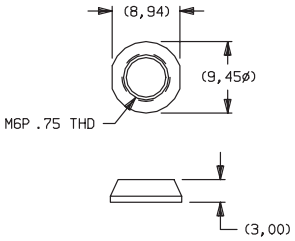
**7000, 8500 & 9000 SERIES**




**PART NO.**

**895101201** NICKEL PLATED
**895101264** BLACK

**7000, 8020 & 8060 SERIES**




**PART NO.**

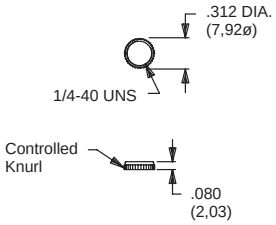
**709903201** NICKEL PLATED
**709903264** BLACK

**MATERIAL**

Brass, nickel plated standard. Other finishes available, consult Customer Service center.

## NUTS (KNURLED)

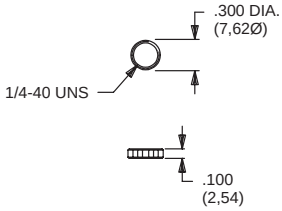
**7000, 8020, 8060, 8500, 9000, T & TP SERIES**




**PART NO.**

**778000201** NICKEL PLATED
**778000264** BLACK

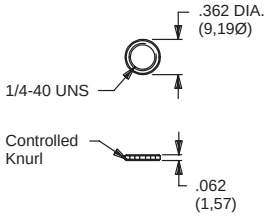
**7000, 8020, 8060, 8500, 9000, E, E010, T & TP SERIES**




**PART NO.**

**778600201** NICKEL PLATED
**778600224** BLACK

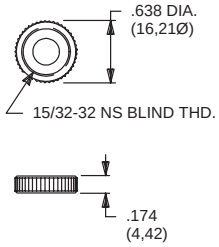
**7000, 8020, 8060, 8500, 9000, T & TP SERIES**
**FITS GULMITE #12 SOCKET & WRENCH 8942-02-201**




**PART NO.**

**796901201** NICKEL PLATED
**796901264** BLACK

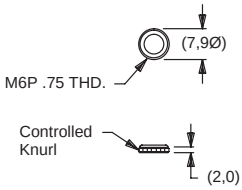
**7000, 8500 & 9000 SERIES**




**PART NO.**

**471300201** NICKEL PLATED
**471300264** BLACK

**7000, 8020 & 8060 SERIES**




**PART NO.**

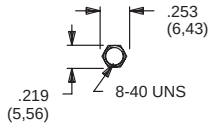
**483200201** NICKEL PLATED

**MATERIAL**

Brass, nickel plated standard. Other finishes available, consult Customer Service center.

## NUTS (MOUNTING)

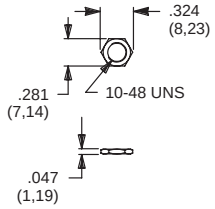
**8600 SERIES**




**PART NO.**

775200201 NICKEL PLATED
775200264 BLACK

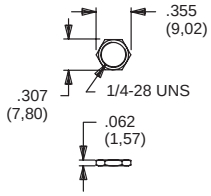
**T & TP SERIES**




**PART NO.**

464900201 NICKEL PLATED
464900264 BLACK

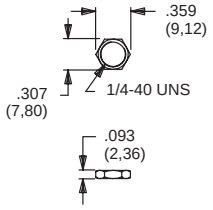
**M SERIES**




**PART NO.**

477100201 NICKEL PLATED

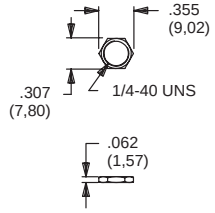
**E & E010 SERIES**




**PART NO.**

540400201 NICKEL PLATED
540400264 BLACK

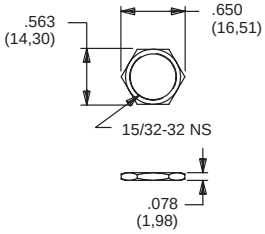
**7000, 8020, 8060, 8500, 9000, T & TP SERIES**




**PART NO.**

700201201 NICKEL PLATED
700201264 BLACK

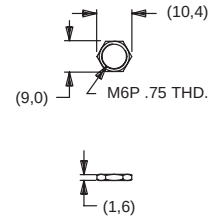
**7000, 8500 & 9000 SERIES**




**PART NO.**

707100201 NICKEL PLATED
707100215 SATIN CHROME
707100264 BLACK

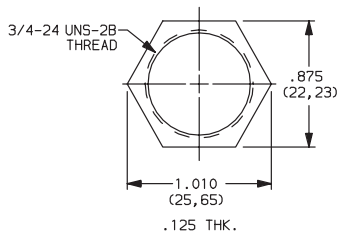
**7000, 8020 & 8060 SERIES**




**PART NO.**

791600201 NICKEL PLATED
791600264 BLACK

**A, BY, GY, H, P, W, Y & YL SERIES**

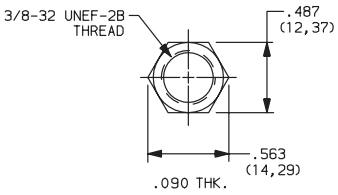



**PART NO.**

175050700

**MATERIAL**
Steel; Finish: Zinc plate

**A SERIES**

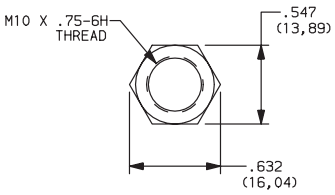



**PART NO.**

472706201

**MATERIAL**
Zinc; Finish: Nickel plate

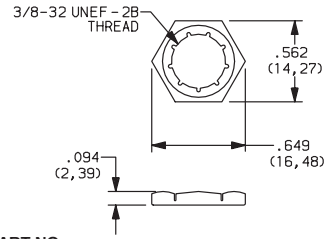
**A SERIES**




**PART NO.**

495100201

**H & R SERIES**

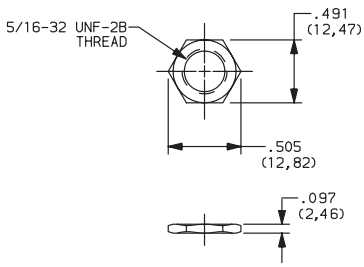



**PART NO.**

175000100

**MATERIAL**
Brass; Finish: Zinc electro & clear bright chromate

**F SERIES**



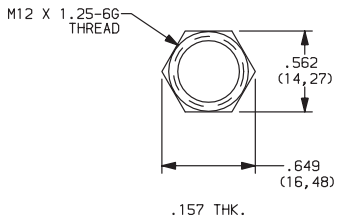

**PART NO.**

175020201

**MATERIAL**
Brass, nickel plated standard. Other finishes available, consult Customer Service Center.

## NUTS (MOUNTING)

**YM SERIES**




**PART NO.**

179090123

**MATERIAL**

Brass, nickel plated standard. Other finishes available, consult Customer Service Center.

## RECESSED BRACKET

**D & DM SERIES**

**PART NO.**

057090100

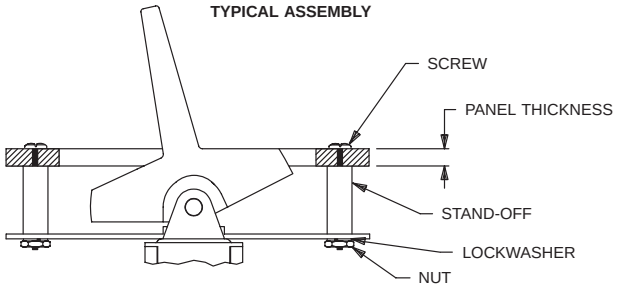
**MATERIAL**

6/6 Nylon

## ROCKER AND LEVER HANDLE SWITCH-PANEL MOUNTING HARDWARE

Panel mounting hardware for rocker and lever handle switches is available separately. Mounting hardware consists of two screws, two nuts, two standoffs and two lockwashers per switch, and is available for panel thicknesses of 1/16, 3/32 and 1/8 inch. See part numbers below.

**TYPICAL ASSEMBLY**




7000 Series: J1, J2, J54, J64, J94 actuators.
T Series: J1, J6 actuators.

| PART NO. | PANEL THK. | STANDOFF LENGTH |
|---|---|---|
| 761101000 | 1/16 IN. (1,59) | .295 (7,49) |
| 761102000 | 3/32 IN (2,38) | .264 (6,71) |
| 761103000 | 1/8 IN. (3,18) | .233 (5,92) |

9000 Series: J1, J2, J3, J50, J60, J90 actuators.
7000 Series: J3 actuators.

| PART NO. | PANEL THK. | STANDOFF LENGTH |
|---|---|---|
| 770601000 | 1/16 IN. (1,59) | .295 (7,49) |
| 770602000 | 3/32 IN (2,38) | .264 (6,71) |
| 770603000 | 1/8 IN. (3,18) | .233 (5,92) |

7000 & 9000 Series: J4, J5 actuators.

| PART NO. | PANEL THK. | STANDOFF LENGTH |
|---|---|---|
| 775001000 | 1/16 IN. (1,59) | .375 99,53) |
| 775002000 | 3/32 IN (2,38) | .344 (8,74) |
| 775003000 | 1/8 IN. (3,18) | .312 (7,92) |

7000 & 9000 Series: J10 actuators.

| PART NO. | PANEL THK. | STANDOFF LENGTH |
|---|---|---|
| 770701000 | 1/16 IN. (1,59) | .295 (7,49) |
| 770702000 | 3/32 IN (2,38) | .264 (6,71) |
| 770703000 | 1/8 IN. (3,18) | .233 (5,92) |

**MATERIAL**

Screws, nuts, lockwashers: Stainless steel. Standoffs: Nylon, standard Aluminum available, consult Customer Service Center.

## ROCKER AND LEVER HANDLE ACTUATORS

**ET SERIES**
**J1 ACTUATOR**

**PART NO.**

| | |
|---|---|
| 261A01000 | WHITE |
| 261A02263 | BLACK |
| 261A03000 | RED |

**T SERIES**
**J1 ACTUATOR**

**PART NO.**

| | |
|---|---|
| 468001000 | WHITE |
| 468002263 | BLACK |
| 468003000 | RED |

**7000, 9000 & E SERIES**
**J1, J11, J15, J16 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 760201000 | WHITE |
| 760202263 | BLACK |
| 760203000 | RED |

**7000, 9000 & E SERIES**
**J2, J21, J25, J26 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 760501000 | WHITE |
| 760502263 | BLACK |
| 760503000 | RED |

**7000, 9000 & E SERIES**
**J3, J37 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 766601000 | WHITE |
| 766602263 | BLACK |
| 766603000 | RED |

**7000, 9000 & E SERIES**
**J4, J47 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 773301000 | WHITE |
| 773302263 | BLACK |
| 773303000 | RED |

**7000, 9000 & E SERIES**
**J5, J57 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 791201000 | WHITE |
| 791202263 | BLACK |
| 791203000 | RED |

**7000, 9000 & E SERIES**
**J50, J51, J52, J53, J54 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 628301000 | WHITE |
| 628302263 | BLACK |
| 628303000 | RED |

**ET SERIES,**
**J6 ACTUATOR**

**PART NO.**

| | |
|---|---|
| 260A01000 | WHITE |
| 260A02263 | BLACK |
| 260A03000 | RED |

For Hi Temp, Consult Factory)

**T SERIES**
**J6 ACTUATOR**

**PART NO.**

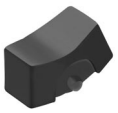
| | |
|---|---|
| 468101000 | WHITE |
| 468102263 | BLACK |
| 468103000 | RED |

**7000, 9000 & E SERIES**
**J60, J61, J62, J63, J64 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 598101000 | WHITE |
| 613802263 | BLACK |
| 598103000 | RED |

**7000 SERIES**
**J76 ACTUATOR**



**PART NO.**

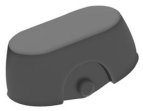
| | |
|---|---|
| 725A01000 | WHITE |
| 725A02263 | BLACK |
| 725A03000 | RED |

**MATERIAL**

Nylon. Finish: Matte. Special colors, custom markings available, consult Customer Service Center.

## ROCKER AND LEVER HANDLE ACTUATORS

**7000, 9000 & E SERIES**
**J8 ACTUATOR**



**PART NO.**

| | |
|---|---|
| 488701000 | WHITE |
| 488702263 | BLACK |
| 488703000 | RED |

**7000, 9000 & E SERIES**
**J90, J91, J92, J93, J94 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 598001000 | WHITE |
| 598002263 | BLACK |
| 598003000 | RED |

**7000 & 9000 SERIES**
**J10, J19 ACTUATORS**

**PART NO.**

| | |
|---|---|
| 769501000 | WHITE |
| 769502263 | BLACK |
| 769503000 | RED |

**7000 & 9000 SERIES**
**L41 ACTUATOR**

**PART NO.**

| | |
|---|---|
| 481001000 | WHITE |
| 481002263 | BLACK |
| 481003000 | RED |

**7000 & 9000 SERIES**
**L42 ACTUATOR**

**PART NO.**

| | |
|---|---|
| 481101000 | WHITE |
| 481102263 | BLACK |
| 481103000 | RED |

**9000 SERIES**
**L43 ACTUATOR**

**PART NO.**

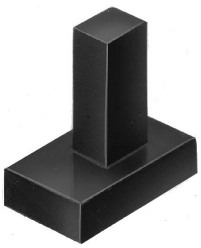
| | |
|---|---|
| 481201000 | WHITE |
| 481202263 | BLACK |
| 481203000 | RED |

**MATERIAL**

Nylon. Finish: Matte. Special colors, custom markings available, consult Customer Service Center.

## SPLASH CAPS

**L SERIES**



**PART NO.**

120100200

Fits 'MS' mounting style, LXX1 & LXX2 models only.

**MATERIAL**
6/6 Nylon

**L SERIES**

**PART NO.**

120100300

Fits 'MV' mounting style, LX1X models only.

**MATERIAL**
6/6 Nylon

**L SERIES**

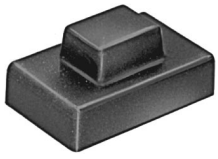
**PART NO.**

120100400

Fits 'MA' mounting style, LXX3 models only.

**MATERIAL**
6/6 Nylon

**V SERIES**



Fits 'MS' mounting style.

**PART NO.**

128000100

**MATERIAL**
6/6 Nylon

**SD SERIES**

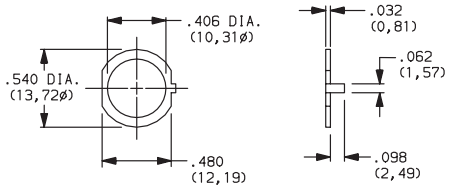
**PART NO.**

| | |
|---|---|
| 678500000 | NATURAL |
| 678501000 | BLACK |

**MATERIAL**
6/6 Nylon

## STOP RINGS

**A SERIES**

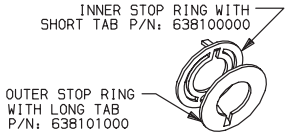



**PART NO.**

472900201

**MATERIAL**
Brass; Finish: Nickel plated

**M SERIES**




**PART NO.**

638100000 INNER-W/SHORT TAB
638101000 OUTER-W/LONG TAB

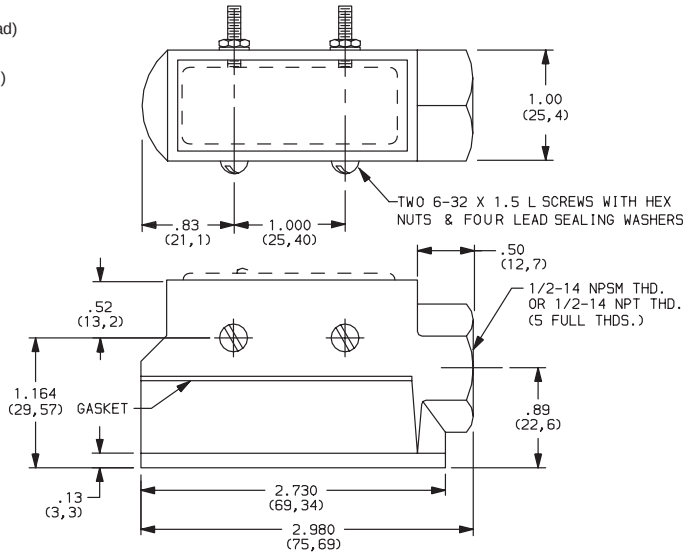
One each required for setting stops.

## SWITCH ENCLOSURES

These enclosures make it easy to install HB and HG Series switches with electrical conduit, electrical tubing or armored cable. The switch is inserted through the open top of the enclosure and is secured by two screws (furnished). The lower section of the enclosure is completely removable and gives free access to the switch terminals. Switches must be ordered separately.

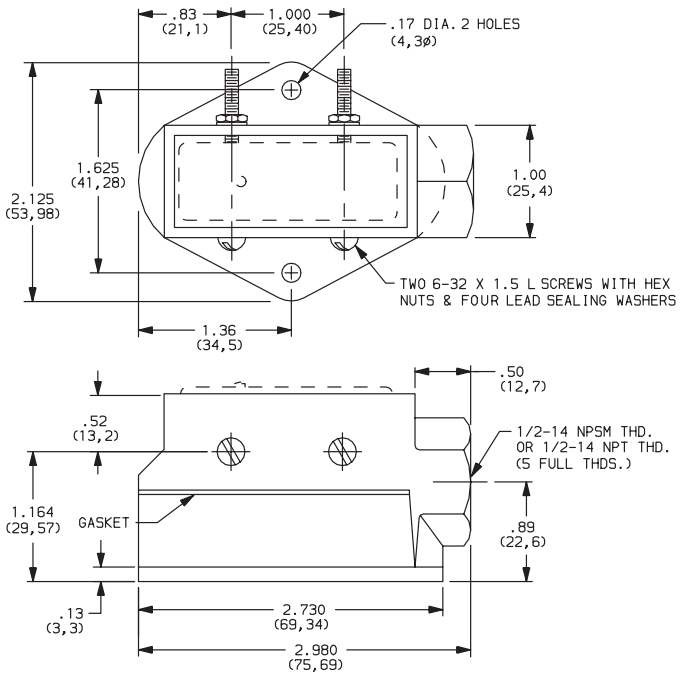
**TC-2** THRU-BOLT MOUNTING, 1/2-14 NPSM CONDUIT THREAD (Straight Thread)

**TC-4** THRU-BOLT MOUNTING, 1/2-14 NPT CONDUIT THREAD (Tapered Thread)




**TC-3** FLANGE MOUNTING, 1/2-14 NPSM CONDUIT THREAD (Straight Thread)

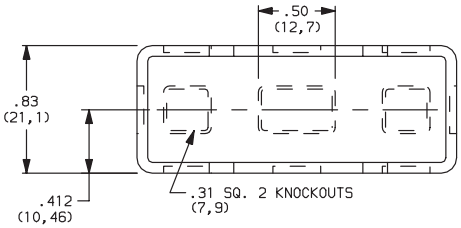
**TC-5** FLANGE MOUNTING, 1/2-14 NPT CONDUIT THREAD (Tapered Thread)

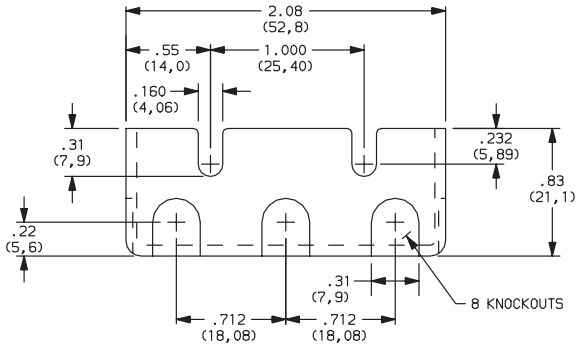


## TERMINAL COVERS

These terminal covers are available with HB and HG Series switches. They are made of molded phenolic, with knockouts that permit wires to be brought in at convenient points. They are held in place by the switch mounting screws.

### TC-1






## WRENCHES

**PART NO.**

**465300201**

**FITS NUT PART NUMBERS**
4649XXXXX, 4657XXXXX

**PART NO.**

**778500201**

**FITS NUT PART NUMBERS**
7002XXXXX, 7099XXXXX
7807XXXXX, 7916XXXXX

**PART NO.**

**481500201**

**FITS NUT PART NUMBERS**
7780XXXXX, 4832XXXXX

**PART NO.**

**894200201**

**FITS NUT PART NUMBERS**
7969XXXXX

## MISCELLANEOUS

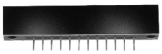
### STOP PINS



**PART NO.**

| | |
|---|---|
| 402900000 | 3 SERIES |
| 657800000 | 3P SERIES |
| 537100000 | M SERIES |
| 587300000 | SF/SR & S2 SERIES |

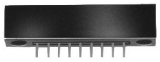
### 3 SERIES CONNECTOR



**PART NO.**

| | | |
|---|---|---|
| 605A00000 | PC | Fits 0, 1, 4, 5 terminations only. |
| 605A02000 | SOLDER LUG | |

### 3P SERIES CONNECTOR



**PART NO.**

| | |
|---|---|
| 630000000 | Fits 0, 1 terminations only. |

### M SERIES WASHERS

**PART NO.**

| | |
|---|---|
| 586800000 | RUBBER PANEL SEAL |
| 537202000 | ADHESIVE MYLAR RETAINS STOP PINS |

### Z3 TERMINATION FEMALE CONNECTOR

**PART NO.**

530100000

### KS SERIES LED SUPPORT

**PART NO.**

540300000

Стандарт Электрон Связь

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