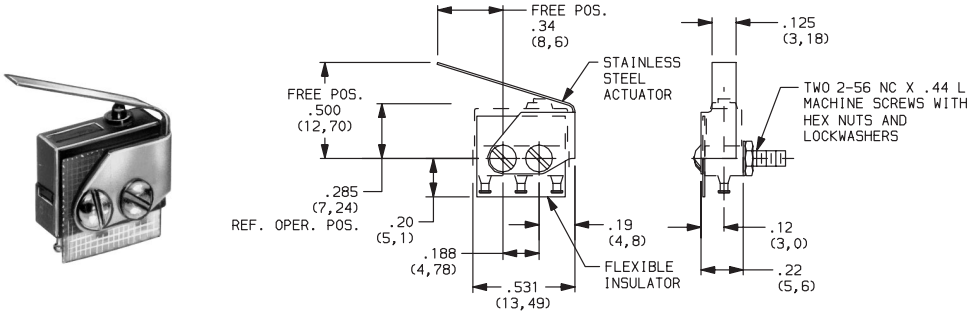


AUXILIARY ACTUATORS

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.

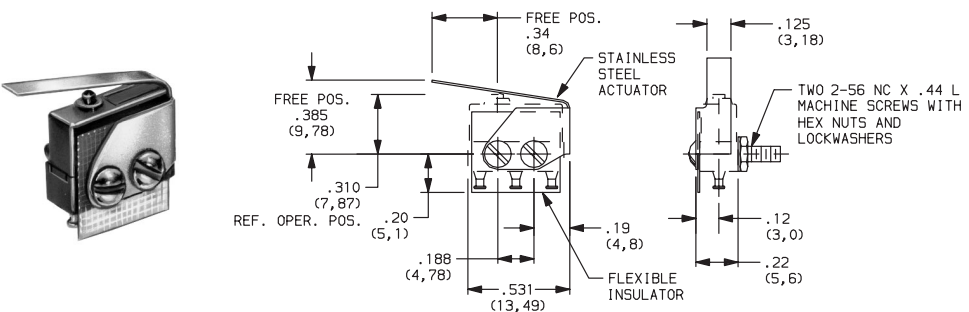
ALS-1 LEAF



SWITCH CHARACTERISTICS

OPERATING FORCE (MAX)	$\frac{\text{oz}}{\text{grams}}$	$\frac{6}{170}$
RELEASE FORCE (MIN)	$\frac{\text{oz}}{\text{grams}}$	$\frac{2}{56}$
DIFFERENTIAL TRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.025}{(0,64)}$
PRETRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.110}{(2,79)}$
OVERTRAVEL (MIN)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.015}{(0,38)}$

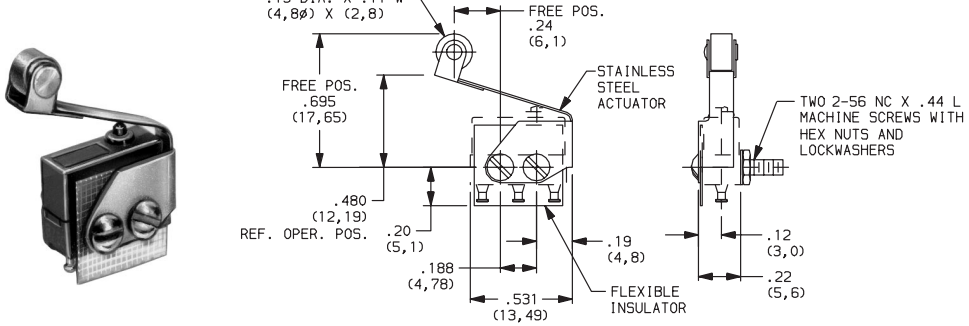
ALS-2 LEAF (Low Motion)



SWITCH CHARACTERISTICS

OPERATING FORCE (MAX)	$\frac{\text{oz}}{\text{grams}}$	$\frac{7}{198}$
RELEASE FORCE (MIN)	$\frac{\text{oz}}{\text{grams}}$	$\frac{2}{56}$
DIFFERENTIAL TRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.025}{(0,64)}$
PRETRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.225}{(5,72)}$
OVERTRAVEL (MIN)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.015}{(0,38)}$

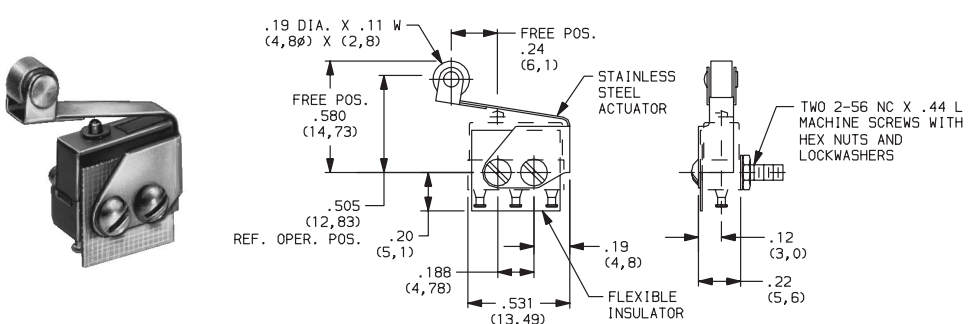
AWS-1 LEAF ROLLER



SWITCH CHARACTERISTICS

OPERATING FORCE (MAX)	$\frac{\text{oz}}{\text{grams}}$	$\frac{6}{170}$
RELEASE FORCE (MIN)	$\frac{\text{oz}}{\text{grams}}$	$\frac{2}{56}$
DIFFERENTIAL TRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.025}{(0,64)}$
PRETRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.110}{(2,79)}$
OVERTRAVEL (MIN)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.015}{(0,38)}$

AWS-2 LEAF ROLLER (Low Motion)



SWITCH CHARACTERISTICS

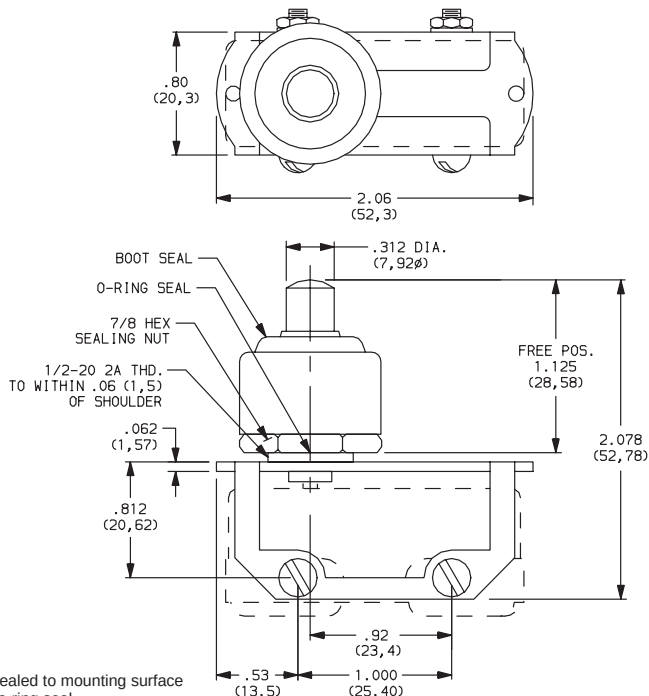
OPERATING FORCE (MAX)	$\frac{\text{oz}}{\text{grams}}$	$\frac{7}{198}$
RELEASE FORCE (MIN)	$\frac{\text{oz}}{\text{grams}}$	$\frac{2}{56}$
DIFFERENTIAL TRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.025}{(0,64)}$
PRETRAVEL (MAX)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.225}{(5,72)}$
OVERTRAVEL (MIN)	$\frac{\text{in}}{\text{(mm)}}$	$\frac{.015}{(0,38)}$

AUXILIARY ACTUATORS

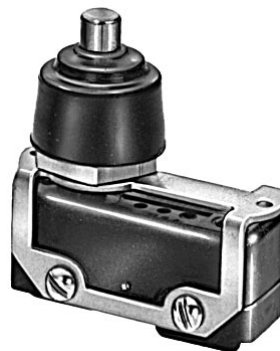
Basic precision HB Series switches, with any terminal style, can be used with these attachable actuators. As supplied, the actuator is not assembled to the switch; the switch must be ordered separately. The actuator can be assembled to the switch before mounting, or the actuator can be mounted on the 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.)

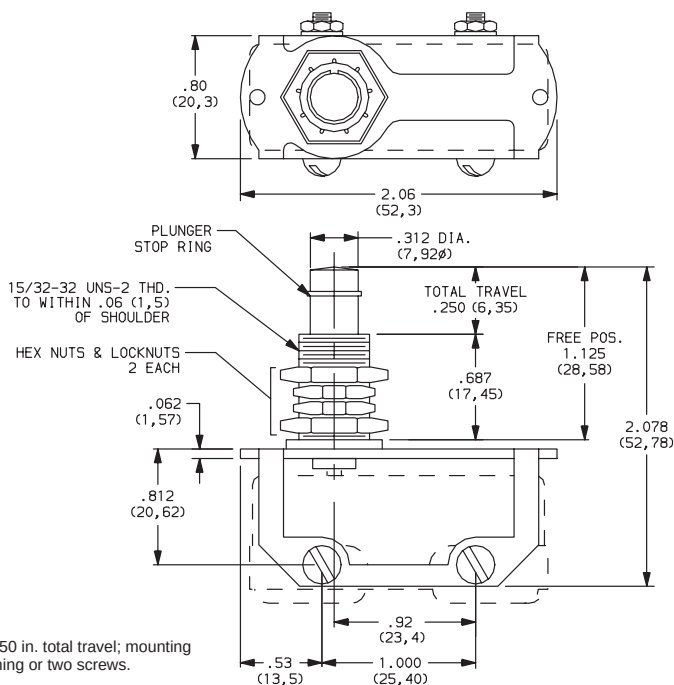


Actuator assembly sealed to mounting surface by flexible boot and o-ring seal.

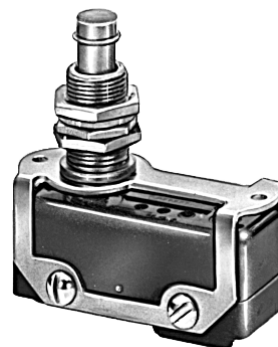


BJ-1 OVERTRAVEL PLUNGER (For use with P0 actuator option.)

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

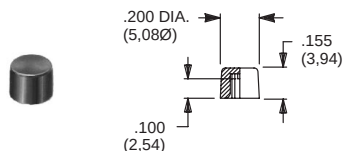


Provides up to .250 in. total travel; mounting by threaded bushing or two screws.



CAPS

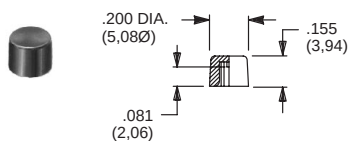
EP & TP SERIES, .100" DIA. PLUNGERS



PART NO.

508101000 WHITE
508102000 BLACK
508103000 RED

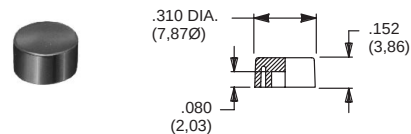
TP SERIES, .100" DIA. PLUNGERS (Recommended for S9 plunger)



PART NO.

538701000 WHITE
538702000 BLACK
538703000 RED

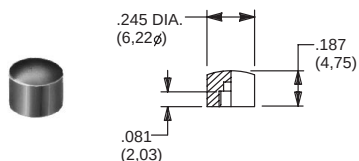
EP & TP SERIES, .100" DIA. PLUNGERS



PART NO.

465801000 WHITE
465802000 BLACK
465803000 RED

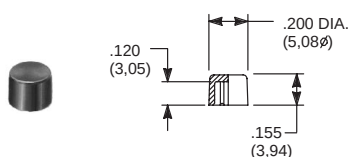
8600 & KM33 SERIES, .106" DIA. PLUNGERS



PART NO.

785101000 WHITE
785102000 BLACK
785103000 RED

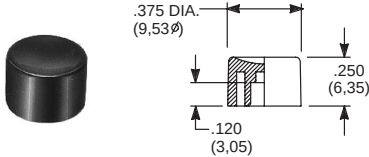
8020, 8060, E010, E020, KM11, L & TP SERIES, .122" DIA. PLUNGERS



PART NO.

708901000 WHITE
708902000 BLACK
708903000 RED

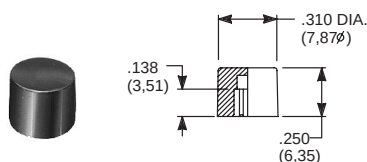
8020, 8060, E010, E020, KM11 & L SERIES, .122" DIA. PLUNGERS



PART NO.

752701000 WHITE
752702000 BLACK
752703000 RED

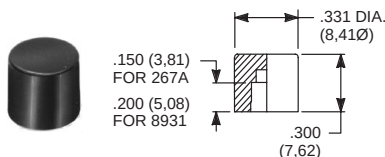
8020, 8060, E010, E020, KM11, L & TP SERIES, .122" DIA. PLUNGERS



PART NO.

801801000 WHITE
801802000 BLACK
801803000 RED

.157" DIA. PLUNGERS



PART NO.

267A01000 WHITE
267A02000 BLACK
267A03000 RED

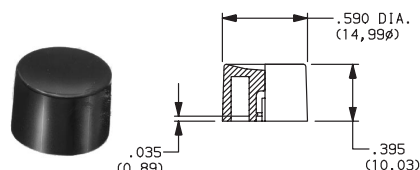
FOR SERIES
 85X2T, 8534T
 Models only

PART NO.

893101000 WHITE
893102000 BLACK
893103000 RED

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

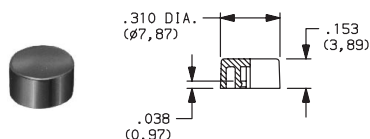
8020, 8050, E010, E020 & L SERIES, .122" DIA. SNAP-FITTING PLUNGERS



PART NO.

894001000 WHITE
894002000 BLACK
894003000 RED

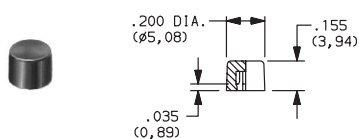
EP11 & EP12 MODELS, .100 DIA. SNAP-FITTING PLUNGERS



PART NO.

585A01000 WHITE
585A02000 BLACK
585A03000 RED

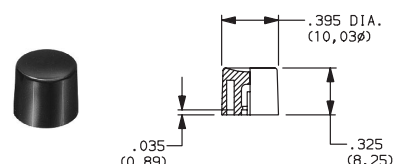
EP11 & EP12 MODELS, .100 DIA. SNAP-FITTING PLUNGERS



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

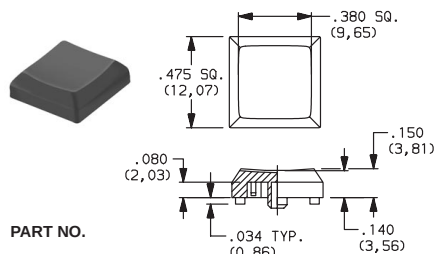
Nylon. Finish: Gloss.

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



CAPS

KA SERIES, K1 CRUCIFORM ACTUATORS



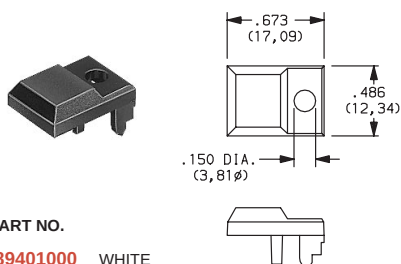
PART NO.

699101000 WHITE
699102000 BLACK
699103000 RED

MATERIAL

Nylon; Finish: Matte

MP SERIES



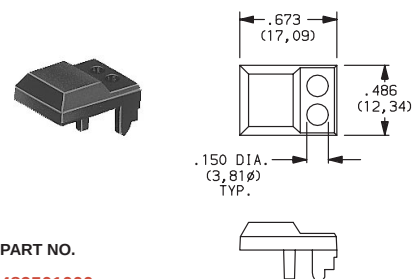
PART NO.

489401000 WHITE
489402000 BLACK
489403000 RED

MATERIAL

Polycarbonate-ABS blend; Finish: Matte

MP SERIES WITH TWO LED



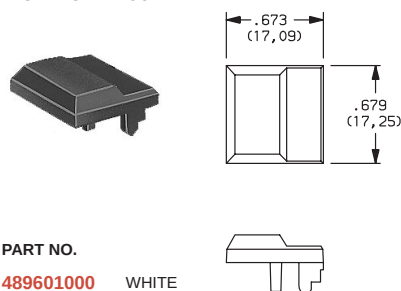
PART NO.

489501000 WHITE
489502000 BLACK
489503000 RED

MATERIAL

Polycarbonate-ABS blend; Finish: Matte

MP SERIES WITHOUT LED



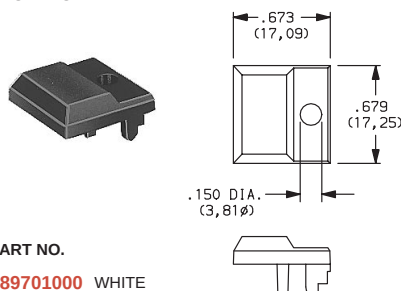
PART NO.

489601000 WHITE
489602000 BLACK
489603000 RED

MATERIAL

Polycarbonate-ABS blend; Finish: Matte

MP SERIES WITH LED



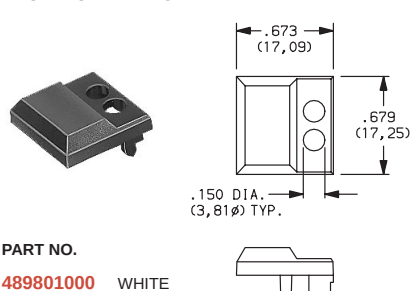
PART NO.

489701000 WHITE
489702000 BLACK
489703000 RED

MATERIAL

Polycarbonate-ABS blend; Finish: Matte

MP SERIES WITH TWO LED



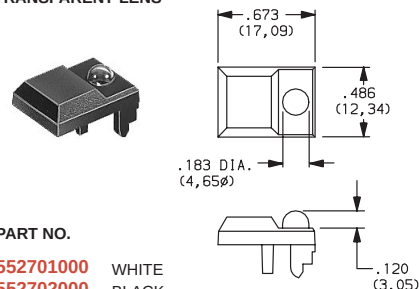
PART NO.

489801000 WHITE
489802000 BLACK
489803000 RED

MATERIAL

Polycarbonate-ABS blend; Finish: Matte

MP SERIES, ANTI-STATIC WITH TRANSPARENT LENS



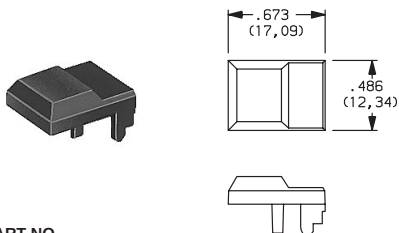
PART NO.

552701000 WHITE
552702000 BLACK
552703000 RED

MATERIAL

Polycarbonate-ABS blend; Finish: Matte

MP SERIES



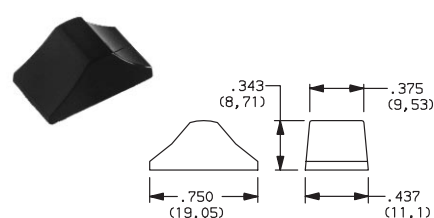
PART NO.

489301000 WHITE
489302000 BLACK
489303000 RED

MATERIAL

Polycarbonate-ABS blend; Finish: Matte

S SERIES, 03 ACTUATOR



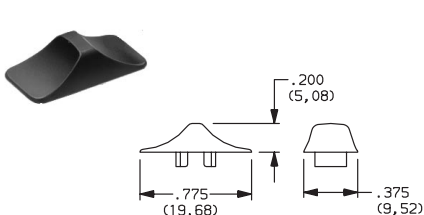
PART NO.

121000101 WHITE
121000102 BLACK
121000103 RED

MATERIAL

6/6 Nylon; Finish: Gloss

S SERIES, C1-C9 ACTUATORS



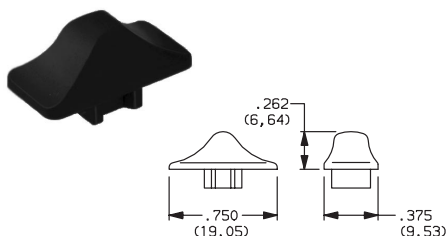
PART NO.

121160100 WHITE
121160200 BLACK
121160300 RED

MATERIAL

6/6 NYLON; Finish: Matte

L SERIES



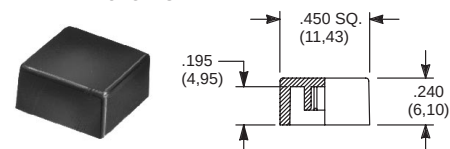
PART NO.

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

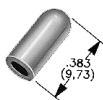
FOR SERIES

8020, 8060, E010, E020, KM11, L, TP.

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

CAPS

7000, 9000 & E SERIES TOGGLE CAPS

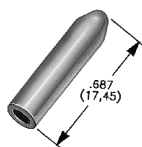


PART NO.

896801000 WHITE
896802000 BLACK
896803000 RED

Material: Polyethylene

7000 SERIES TOGGLE CAPS

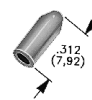


PART NO.

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

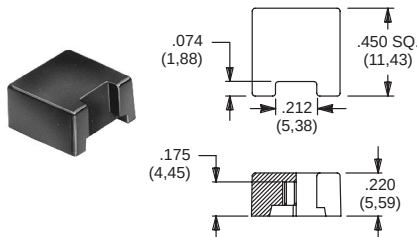
8500 SERIES, .157" DIA. PLUNGERS



PART NO.

448901000 WHITE
448902000 BLACK
448903000 RED

8020 & 8060 SERIES, .122" DIA. PLUNGERS



MATTE

GLOSS

PART NO.

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



ITT Industries

Cannon



CODED SWITCHES – END PLATES

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



PART NO.

211702000 BLACK
211709000 GRAY

Two required for
complete assembly.

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



PART NO.

211802000 BLACK
211809000 GRAY

Two required for
complete assembly.

S2 SERIES REAR MOUNT, MOUNTING STYLE S2T
WITH NO FLANGE



PART NO.

212002000 BLACK
212009000 GRAY

Two required for
complete assembly.

S2 SERIES FRONT MOUNT, MOUNTING STYLE S2F



PART NO.

211902000 BLACK
211909000 GRAY

Two required for
complete assembly.

3U SERIES



LEFT-with hole

RIGHT-with pin

PART NO.

113B02000 LEFT-BLACK
113B09000 LEFT-GRAY

114B02000 RIGHT-BLACK
114B09000 RIGHT-GRAY

One left and one right
piece required for
complete assembly.

3 SERIES FRONT MOUNT, TYPE 3



PART NO.

655702000 BLACK
655709000 GRAY

Two required for
complete assembly.

3 SERIES FRONT MOUNT, TYPE 0



PART NO.

413402000 BLACK
413409000 GRAY

Two required for
complete assembly.

3 SERIES REAR MOUNT, TYPE 1



PART NO.

400402000 BLACK
400409000 GRAY

Two required for
complete assembly.

3 SERIES REAR MOUNT, TYPE 2



PART NO.

473202000 BLACK
473209000 GRAY

Two required for
complete assembly.

3P SERIES



LEFT-with hole

RIGHT-with pin

PART NO.

623502000 LEFT-BLACK
623509000 LEFT-GRAY

623602000 RIGHT-BLACK
623609000 RIGHT-GRAY

One left and one right
piece required for
complete assembly.

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

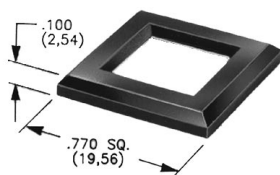


Material: Nylon.
Finish: Matte.

PART NO.

613301000 WHITE
613302263 BLACK
613303000 RED

J50, J60, J80, J83, J90 ACTUATORS



Material: Nylon.
Finish: Matte or Gloss.

MATTE

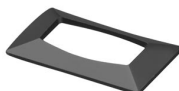
GLOSS

PART NO.

PART NO.

486701000 486801000 WHITE
486702000 486802000 BLACK
486703000 486803000 RED

7000 SERIES
J76 ACTUATORS



Material: Nylon.
Finish: Matte.

PART NO.

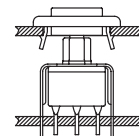
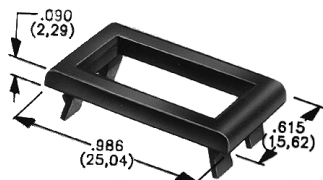
724A01000 WHITE
724A02000 BLACK
724A03000 RED

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.

PART NO.

452901000
452902263
452903000

.062" (1,57) PANEL THK.

PART NO.

452701000
452702263
452703000

.090" (2,29) PANEL THK.

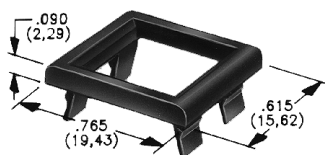
PART NO.

452801000
452802263
452803000

.125" (3,18) PANEL THK.

PART NO.

452601000 WHITE
452602263 BLACK
452603000 RED

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

.047" (1,19) PANEL THK.

PART NO.

432501000
432502263
432503000

.062" (1,57) PANEL THK.

PART NO.

432601000
432602263
432603000

.090" (2,29) PANEL THK.

PART NO.

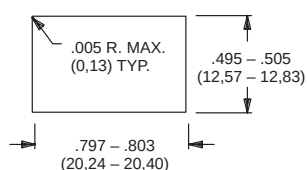
432701000
432702263
432703000

.125" (3,18) PANEL THK.

PART NO.

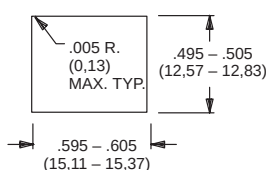
432801000 WHITE
432802263 BLACK
432803000 RED

4529, 4527, 4528, 4526

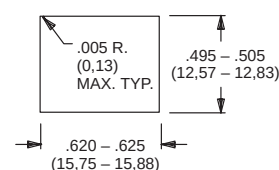


PANEL MOUNTING

4325, 4326



4327, 4328

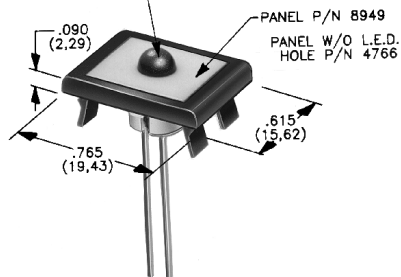


PANEL INSERTS

(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.

L.E.D. (.200 DIA. (5,08)) SNAPS
SECURELY INTO INSERT (P/N 8949).
HEIGHT DEPENDS ON L.E.D. USED.



PANEL INSERT
WITH HOLE FOR LED

PART NO.

894901000
894902000
894903000

BLANK PANEL INSERT
WITHOUT HOLE FOR LED

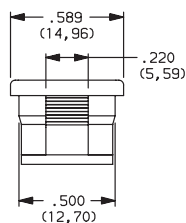
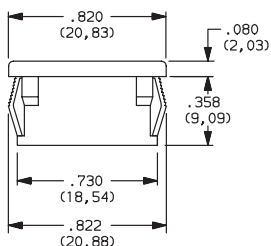
PART NO.

476601000 WHITE
476602000 BLACK
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)

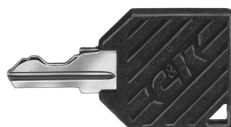
115140126

MATERIAL

Brass; Finish: Nickel plate

FOR SERIES

A, H, P, W, Y, YL
Key Code: A126



5 TUMBLER

PART NO. (ONE KEY)

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

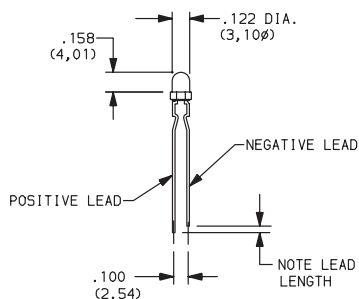
DESCRIPTION

Tool used to remove lamps or LEDs from switches.

LEDS & FILAMENT LAMPS

MP SERIES

02, R2 & S2 CAP STYLES



PART NO.

498703615

RED

498705615

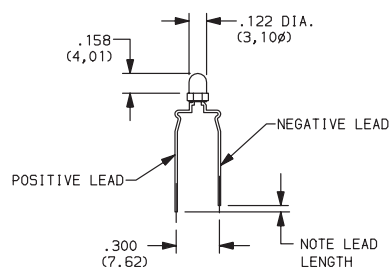
YELLOW

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 1.90691.0270000 1.90691.0280000	1 Chip LED	Red Green Yellow	Bi-pin T1	DC*	10 mA	8.1mm Illuminated Pushbutton	1.90900.0010000
1.90692.0010000 1.90692.0020000 1.90692.0030000	1 Chip LED	Red Green Yellow	T4.5	DC*	10 mA	Lumotast® 75	1.90900.0010000
1.90692.0450000 1.90692.0460000 1.90692.0470000	6 chip LED	Red Green Yellow	W 2x4.6 d	24 +10% AC/DC max.	12 mA	RAFIX 16	1.90900.0030000

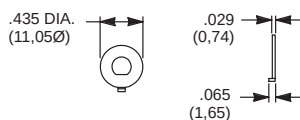
*Must install a suitable external series resistor.

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 1.90100.0220000 1.90100.0230000	Miniature Telephone Filament Lamp	T 4.5	6 V 12 V 24 V	0.05 A 0.04 A 0.02 A	0.3 0.48 0.48	10,000 10,000 8,000	Lumotast® 75	1.90900.0020000
	1.90120.0130000 1.90120.0120000 1.90120.0110000 1.90120.0090000	Filament Lamp	W 2x4.6 d	6 V 12 V 24 V 60 V	0.20 A 0.08 A 0.04 A 0.02 A	1.2 1.2 1.2 1.2	20,000 15,000 7,000 3,300	RAFIX 16	1.90900.0030000
	1.90180.4710000 1.90180.4720000 1.90180.4730000	Indicator Lamp T1	Bi-pin	6 V 12/14 V 24/28 V	0.05 A 0.03 A 0.016 A	0.3 0.4-.56 0.4-.56	50,000 20,000 5,000	8.1 mm Illum. Pushbuttons	1.90900.0010000



LOCKING RINGS

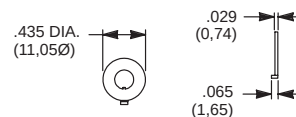
T & TP SERIES
FITS 10-48 BUSHING



PART NO.

465000201 NICKEL PLATED WITH FLAT

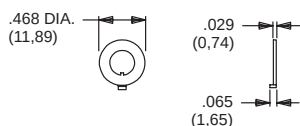
7000, 8020, 8060, 8500, 9000, M, T & TP SERIES
FITS 1/4-40 BUSHING



PART NO.

700701201 NICKEL PLATED WITH KEYWAY
700701264 BLACK WITH KEYWAY

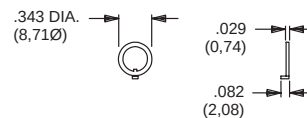
T & TP SERIES
FITS 10-48 BUSHING



PART NO.

465101201 NICKEL PLATED WITH KEYWAY

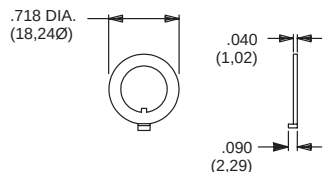
7000, 8020, 8060, 8500, 9000, M, T & TP SERIES
FITS 1/4-40 BUSHING



PART NO.

753700201 NICKEL PLATED WITH KEYWAY
753700264 BLACK WITH KEYWAY

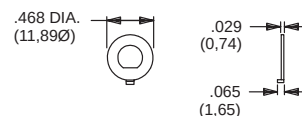
7000, 8500 & 9000 SERIES
FITS 15/32 BUSHING



PART NO.

707200201 NICKEL PLATED WITH KEYWAY
707200264 BLACK WITH KEYWAY

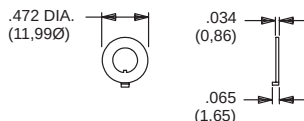
7000, 8020, 8060, 8500, 9000, M, T & TP SERIES
FITS 1/4-40 BUSHING



PART NO.

757200201 NICKEL PLATED WITH FLAT
757200264 BLACK WITH FLAT

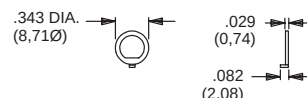
7000, 8020 & 8060 SERIES
FITS M6P2 METRIC BUSHING



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

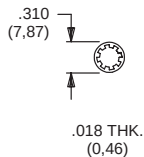
MATERIAL

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



LOCKWASHERS

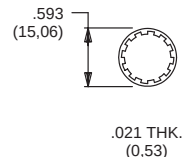
FITS 10-48 BUSHING



PART NO.

465200202 NICKEL PLATED

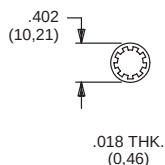
FITS 15/32 BUSHING



PART NO.

700302202 NICKEL PLATED
700302264 BLACK

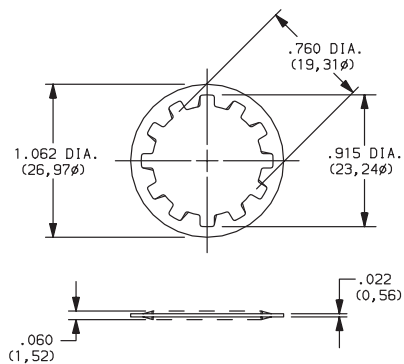
FITS 1/4-40 BUSHING



PART NO.

700303202 NICKEL PLATED
700303264 BLACK

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



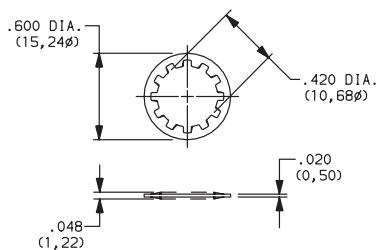
PART NO.

175050200 NICKEL PLATED

MATERIAL

Steel; Finish: Zinc plate

A SERIES FITS 3/8 DIA. THREAD



PART NO.

472800202

MATERIAL

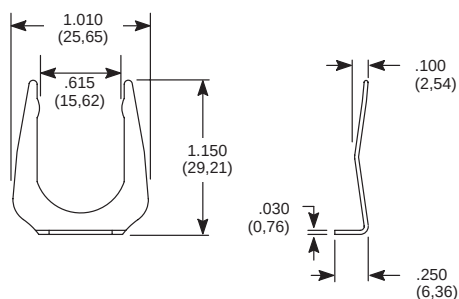
Steel; Finish: Zinc plate

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

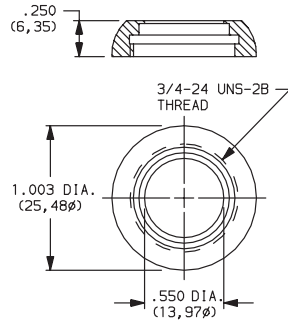


ITT Industries

Cannon

NUTS (DRESS)

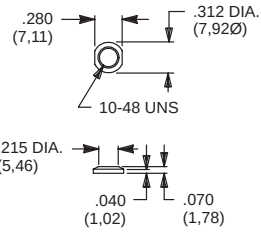
Y, H & A SERIES



PART NO.

531300201 NICKEL PLATE
531300535 POLISHED NICKEL PLATE
175052745 GLOSS BLACK PLATE

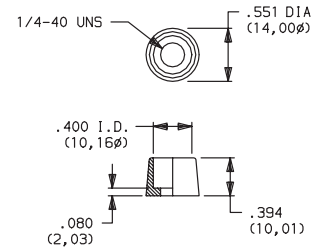
T & TP SERIES



PART NO.

465701201 NICKEL PLATED
465701264 BLACK

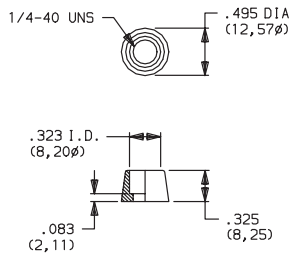
8020, 8060, 8500 & TP SERIES



PART NO.

580700201 NICKEL PLATED

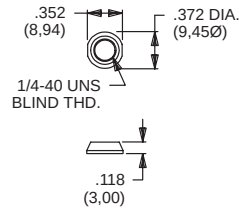
8020, 8060, E010 & TP SERIES



PART NO.

702501201 NICKEL PLATED
702501264 BLACK

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



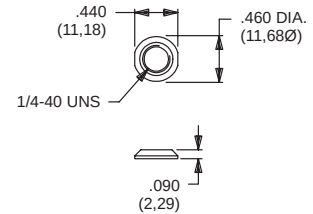
PART NO.

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



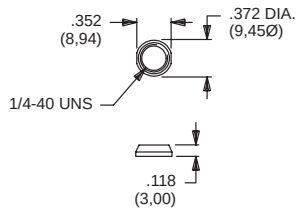
PART NO.

776001201 NICKEL PLATED
776002231 BLACK

FOR SERIES

7000, 8020, 8060, 8500, 9000, E, E010, T, TP

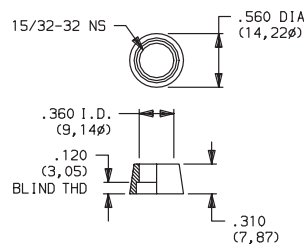
7000, 8020, 8060, 8500, 9000, E, E010, T & TP SERIES



PART NO.

780701201 NICKEL PLATED
780701215 SATIN CHROME
780701264 BLACK

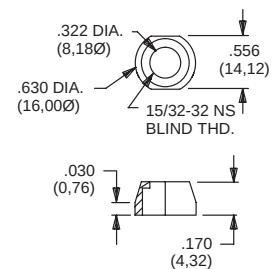
8500 SERIES



PART NO.

498800201 NICKEL PLATED

7000 SERIES, T2P ACTUATOR



PART NO.

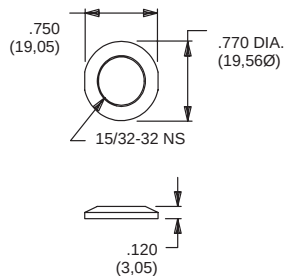
605300201 NICKEL PLATED

MATERIAL

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

NUTS (DRESS)

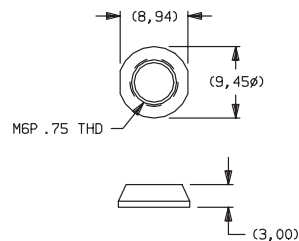
7000, 8500 & 9000 SERIES



PART NO.

895101201 NICKEL PLATED
895101264 BLACK

7000, 8020 & 8060 SERIES



PART NO.

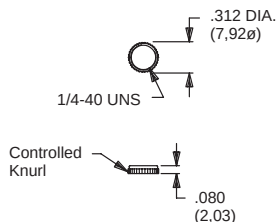
709903201 NICKEL PLATED
709903264 BLACK

MATERIAL

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

NUTS (KNURLED)

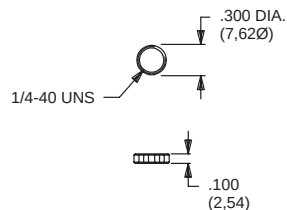
7000, 8020, 8060, 8500, 9000, T & TP SERIES



PART NO.

778000201 NICKEL PLATED
778000264 BLACK

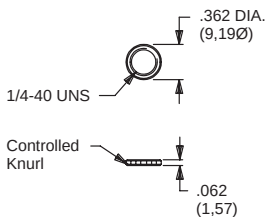
7000, 8020, 8060, 8500, 9000, E, E010, T & TP SERIES



PART NO.

778600201 NICKEL PLATED
778600224 BLACK

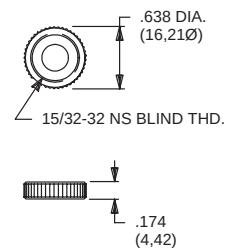
7000, 8020, 8060, 8500, 9000, T & TP SERIES
FITS GULMITE #12 SOCKET & WRENCH 8942-02-201



PART NO.

796901201 NICKEL PLATED
796901264 BLACK

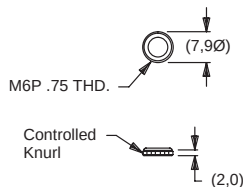
7000, 8500 & 9000 SERIES



PART NO.

471300201 NICKEL PLATED
471300264 BLACK

7000, 8020 & 8060 SERIES



PART NO.

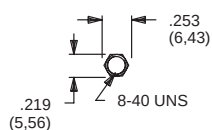
483200201 NICKEL PLATED

MATERIAL

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

NUTS (MOUNTING)

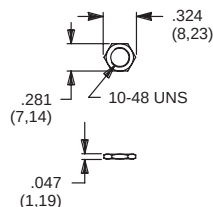
8600 SERIES



PART NO.

775200201 NICKEL PLATED
775200264 BLACK

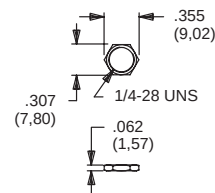
T & TP SERIES



PART NO.

464900201 NICKEL PLATED
464900264 BLACK

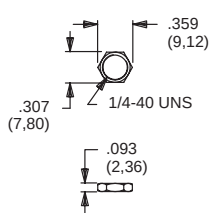
M SERIES



PART NO.

477100201 NICKEL PLATED

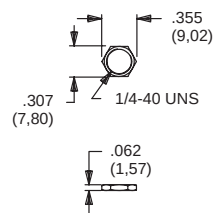
E & E010 SERIES



PART NO.

540400201 NICKEL PLATED
540400264 BLACK

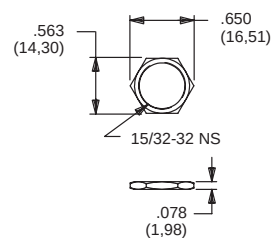
7000, 8020, 8060, 8500, 9000, T & TP SERIES



PART NO.

700201201 NICKEL PLATED
700201264 BLACK

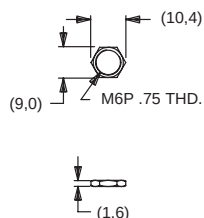
7000, 8500 & 9000 SERIES



PART NO.

707100201 NICKEL PLATED
707100215 SATIN CHROME
707100264 BLACK

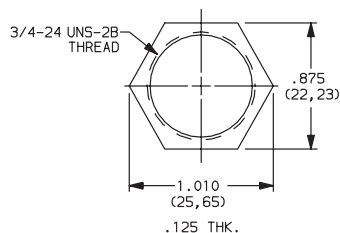
7000, 8020 & 8060 SERIES



PART NO.

791600201 NICKEL PLATED
791600264 BLACK

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

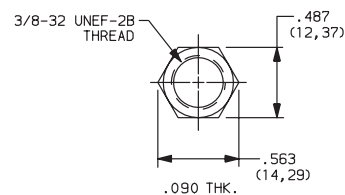


PART NO.

175050700

MATERIAL
 Steel; Finish: Zinc plate

A SERIES

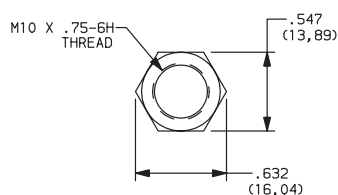


PART NO.

472706201

MATERIAL
 Zinc; Finish: Nickel plate

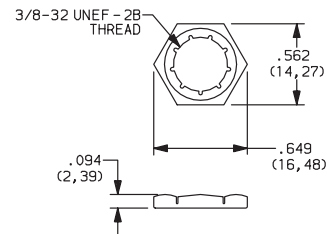
A SERIES



PART NO.

495100201

H & R SERIES

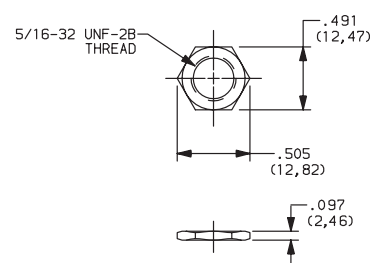


PART NO.

175000100

MATERIAL
 Brass; Finish: Zinc electro & clear bright chromate

F SERIES



PART NO.

175020201

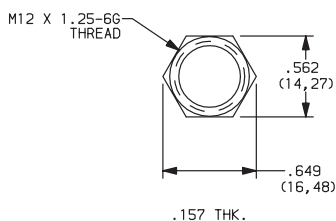
MATERIAL

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.

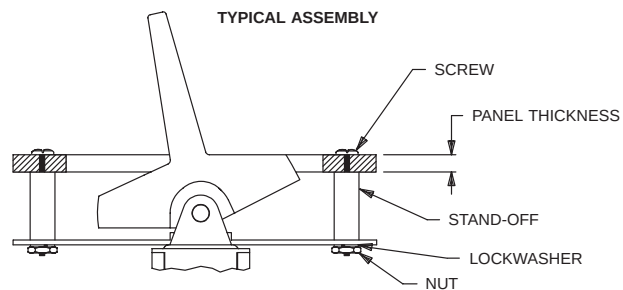
057090100

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.



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 (9,53)
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.



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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

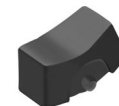
7000, 9000 & E SERIES J60, J61, J62, J63, J64 ACTUATORS



PART NO.

598101000 WHITE
613802263 BLACK
598103000 RED

7000 SERIES J76 ACTUATOR



PART NO.

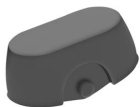
725A01000 WHITE
725A02263 BLACK
725A03000 RED

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

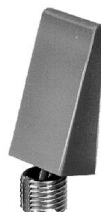
PART NO.

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.

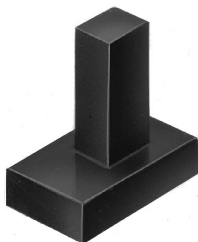
481201000 WHITE
481202263 BLACK
481203000 RED

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

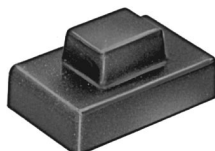


PART NO.

120100400 Fits 'MA' mounting style,
LXX3 models only.

MATERIAL
6/6 Nylon

V SERIES



PART NO.

128000100

MATERIAL
6/6 Nylon

SD SERIES



PART NO.

678500000 NATURAL
678501000 BLACK

MATERIAL
6/6 Nylon



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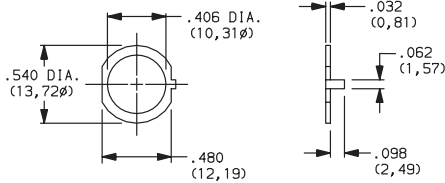
Canon

STOP RINGS

A SERIES

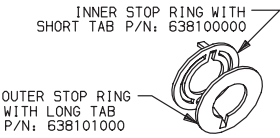
PART NO.
472900201

MATERIAL
Brass; Finish: Nickel plated



M SERIES

PART NO.
638100000 INNER-W/SHORT TAB
638101000 OUTER-W/LONG TAB



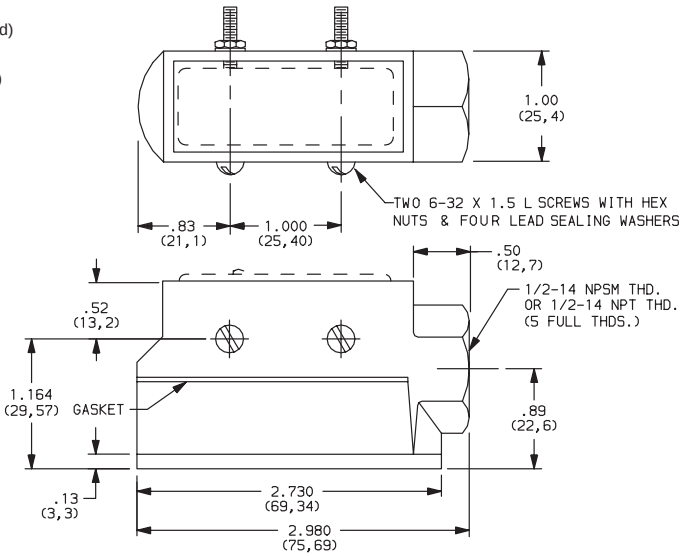
One each required for setting stops.

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 having either the flat base or step base can be used. Switches must be ordered separately.

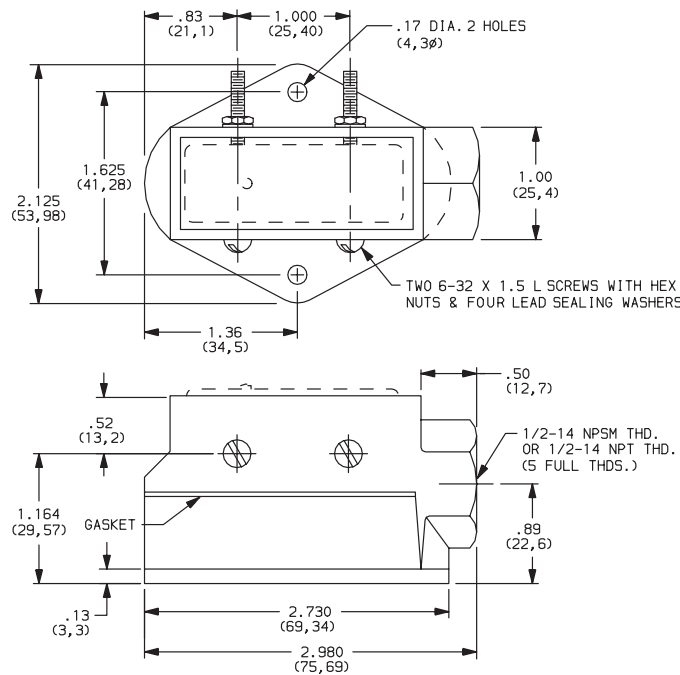
TC-2 THRU-BOLT MOUNTING, 1/2-14 NPSM CONDUIT THREAD (Straight Thread)

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)

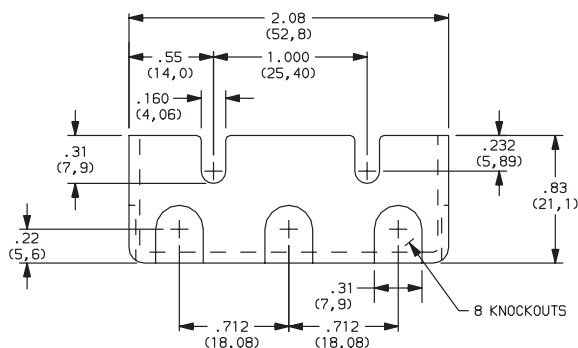
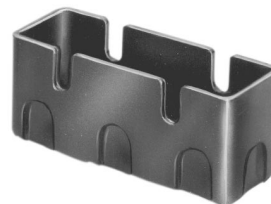
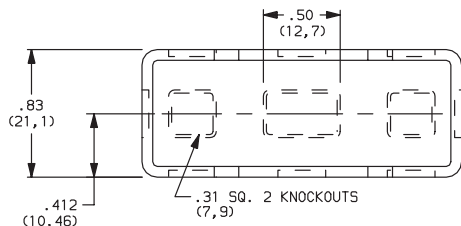
TC-5 FLANGE MOUNTING, 1/2-14 NPT CONDUIT THREAD (Tapered Thread)



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



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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

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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Email: org@lifeelectronics.ru

www.lifeelectronics.ru