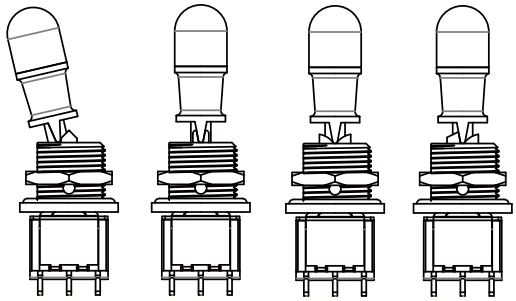


SPECIFICATIONS:

CONTACT RATING: Refer to "Contact Material Options" for more info.
ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 10mΩ max. initial
INSULATION RESISTANCE: 1,000MΩ min. (500VDC for 1 minute)
DIELECTRIC STRENGTH: 1,500V RMS @ sea level.
OPERATING TEMPERATURE: -30°C to +85°C
IP67 FRONT PANEL PROTECTION

MATERIALS:

CASE: Diallyl phthalate(DAP)(UL 94V-0)
ACTUATOR: Brass, chrome plated or aluminum alloy, anodized
BUSHING: Brass, nickel plated or aluminum alloy, anodized.
HOUSING: Stainless Steel.
TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM

100 — SP11 — TX — [ ] — [ ]

Switch Pole
SP Single-pole
DP Double-pole
3P Three-pole
4P Four-pole

Switch Function
1 On-On
3 On-Off-On
4 (On)-Off-(On)
5 On-Off-(On)
6 On-Off-On
7 (On)-On-(On)
8 On-On-(On)
T (On)-Off-On
H (On)-On-On

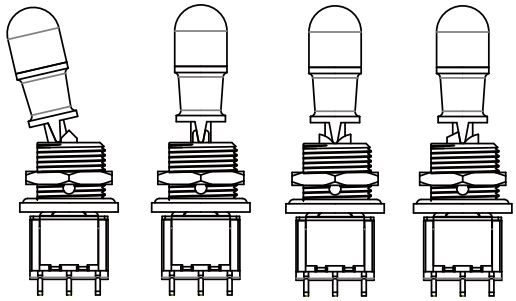
Locking Lever
1,2,A~N Locked positions
(See following page)

Actuator Color
T Standard (Brass chrome plated)
1 AL Glossy Clear Anodized
2 AL Glossy Black Anodized
3 AL Glossy Red Anodized
4 AL Glossy Orange Anodized
5 AL Glossy Yellow Anodized
6 AL Glossy Green Anodized
7 AL Glossy Blue Anodized
8 AL Glossy Brown Anodized
9 AL Glossy Grey Anodized
A AL Matte Clear Anodized
B AL Matte Black Anodized
C AL Matte Red Anodized
D AL Matte Orange Anodized
E AL Matte Yellow Anodized
F AL Matte Green Anodized
G AL Matte Blue Anodized
H AL Matte Brown Anodized
I AL Matte Grey Anodized

Actuator Type
X Locking lever, 22.40 (.88") high
A Locking lever, 26.00 (1.02") high
B Locking lever, 27.40 (1.08") high
C Locking lever, 29.50 (1.1688") high
D Locking lever, 29.50 (1.1688") high

Cap Type
0 No Cap

Cap Color
0 No color requuired



SPECIFICATIONS:

CONTACT RATING: Refer to "Contact Material Options" for more info.
ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 10mΩ max. initial
INSULATION RESISTANCE: 1,000MΩ min. (500VDC for 1 minute)
DIELECTRIC STRENGTH: 1,500V RMS @ sea level.
OPERATING TEMPERATURE: -30°C to +85°C
IP67 FRONT PANEL PROTECTION

MATERIALS:

CASE: Diallyl phthalate(DAP)(UL 94V-0)
ACTUATOR: Brass, chrome plated or aluminum alloy, anodized
BUSHING: Brass, nickel plated or aluminum alloy, anodized.
HOUSING: Stainless Steel.
TERMINAL SEAL: Epoxy.

Specifications and Dimensions subject to change

If your preferred product configuration is not shown, please contact our sales representative for custom design.

HOW TO ORDER SYSTEM

Continued from previous page

BU [ ] [ ] [ ]

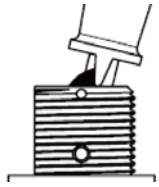
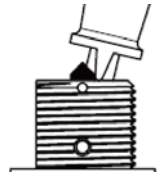
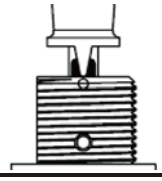
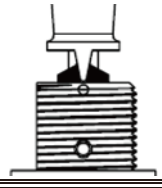
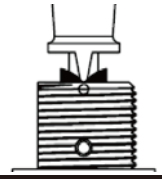
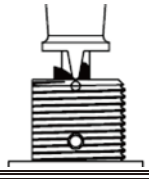
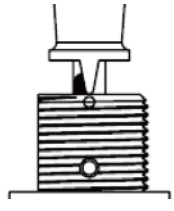
Bushing Color
B Standard (Brass chrome plated)
1 AL Glossy Clear Anodized
2 AL Glossy Black Anodized
3 AL Glossy Red Anodized
4 AL Glossy Orange Anodized
5 AL Glossy Yellow Anodized
6 AL Glossy Green Anodized
7 AL Glossy Blue Anodized
8 AL Glossy Brown Anodized
9 AL Glossy Grey Anodized
A AL Matte Clear Anodized
B AL Matte Black Anodized
C AL Matte Red Anodized
D AL Matte Orange Anodized
E AL Matte Yellow Anodized
F AL Matte Green Anodized
G AL Matte Blue Anodized
H AL Matte Brown Anodized
I AL Matte Grey Anodized

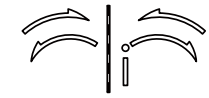
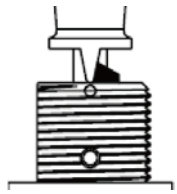
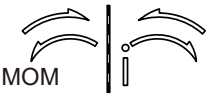
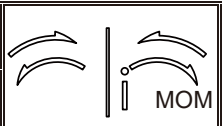
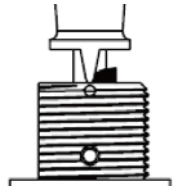
Bushing Type
U 9.80 (.39") high

Termination
M1 Solder lug
M2 PC thru-hole
M3 Quick connect
M5-1 Wire wrap, 19.05 (.750") long
M5-2 Wire wrap, 24.48 (.964") long
M5-3 Wire wrap, 10.80 (.425") long
M5-4 Wire wrap, 26.97 (1.062") long

Contact Material
Q Silver
P Silver (tin plated term.)
R Gold
K Gold (tin plated term.)
G Silver
(gold over silver term.)

Seal
E Epoxy
0 W/O Epoxy

Pole Option		Switching Position Option Flat Side - Opposition Flat			Locking Lever Option	
		1	ON-ON		1	
		1	ON-ON		2	
		6	ON-ON-ON		A	
		3	ON-OFF-ON			
SP	single-pole	6	ON-ON-ON		B	
DP	double-pole	3	ON-OFF-ON			
3P	three-pole	7	(ON)-ON-(ON)	MOM MOM	C	
4P	four-pole	4	(ON)-OFF-(ON)			
		T	(ON)-OFF-ON	MOM	D	
		H	(ON)-ON-ON			
		6	ON-ON-ON		E	
		3	ON-OFF-ON			
		8	ON-ON-(ON)	MOM		
		5	ON-OFF-(ON)			
		T	(ON)-OFF-ON	MOM	F	
		H	(ON)-ON-ON			

Pole Option		Switching Position Option Flat Side - Opposition Flat			Locking Lever Option	
SP	single-pole	3	ON-OFF-ON		G	
DP	double-pole	6	ON-ON-ON			
3P	three-pole	T	(ON)-OFF-ON			
4P	four-pole	H	(ON)-ON-ON			
		5	ON-OFF-(ON)		H	
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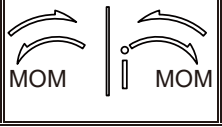
		4	(ON)-OFF-(ON)			
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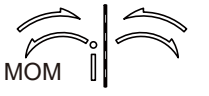
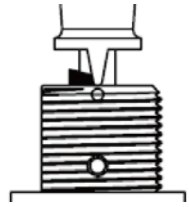
		T	(ON)-OFF-ON		J	
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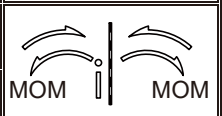
		4	(ON)-OFF(ON)			
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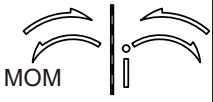
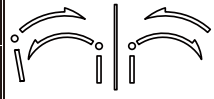
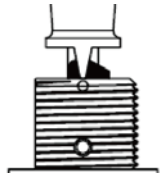
		T	(ON)-OFF-ON		K	
		H	(ON)-ON-ON			
		6	ON-ON-ON		L	
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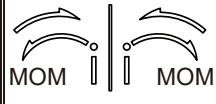
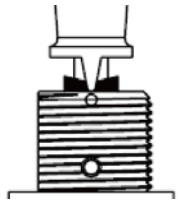
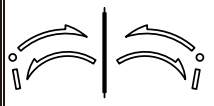
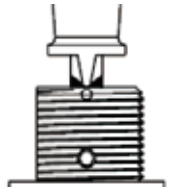
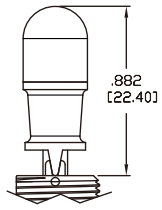
		8	ON-ON-(ON)		M	
		5	ON-OFF-(ON)			
		6	ON-ON-ON		N	
		3	ON-OFF-ON			

ACTUATOR COLOR

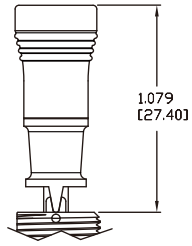
Code	Actuator Color	Code	Actuator Color	Code	Actuator Color	Code	Actuator Color
T	Standard (Brass chrome plated)	5	AL Glossy Yellow Anodized	A	AL Matte Clear Anodized	F	AL Matte Green Anodized
1	AL Glossy Clear Anodized	6	AL Glossy Green Anodized	B	AL Matte Black Anodized	G	AL Matte Blue Anodized
2	AL Glossy Black Anodized	7	AL Glossy Blue Anodized	C	AL Matte Red Anodized	H	AL Matte Brown Anodized
3	AL Glossy Red Anodized	8	AL Glossy Brown Anodized	D	AL Matte Orange Anodized	I	AL Matte Grey Anodized
4	AL Glossy Orange Anodized	9	AL Glossy Grey Anodized	E	AL Matte Yellow Anodized		

ACTUATOR TYPE OPTIONS

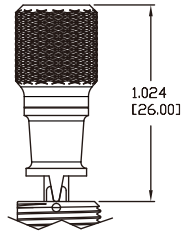
X



A



B



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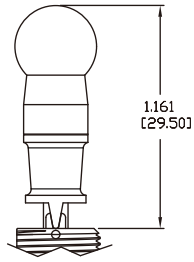

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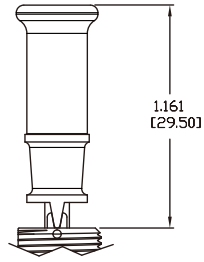
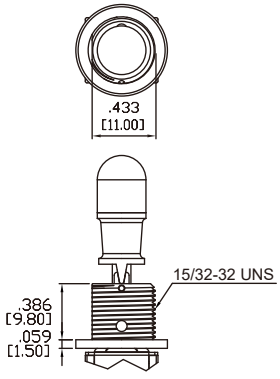


BUSHING COLOR

Code	Actuator Color	Code	Actuator Color	Code	Actuator Color	Code	Actuator Color
B	Standard (Brass chrome plated)	5	AL Glossy Yellow Anodized	A	AL Matte Clear Anodized	F	AL Matte Green Anodized
1	AL Glossy Clear Anodized	6	AL Glossy Green Anodized	B	AL Matte Black Anodized	G	AL Matte Blue Anodized
2	AL Glossy Black Anodized	7	AL Glossy Blue Anodized	C	AL Matte Red Anodized	H	AL Matte Brown Anodized
3	AL Glossy Red Anodized	8	AL Glossy Brown Anodized	D	AL Matte Orange Anodized	I	AL Matte Grey Anodized
4	AL Glossy Orange Anodized	9	AL Glossy Grey Anodized	E	AL Matte Yellow Anodized		

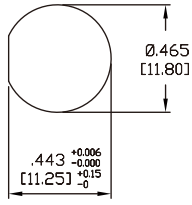
BUSHING TYPE OPTIONS

U



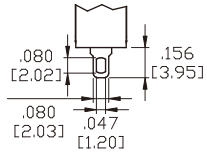
PANEL MOUNTING

15/32 INCH BUSHING



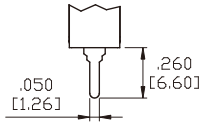
TERMINATION OPTIONS

M1 STD. SOLDER LUG



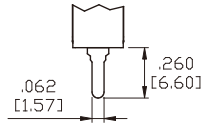
THK .030 [0.75]

M2 PC THRU-HOLE



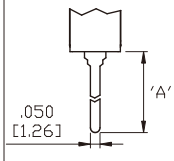
THK .030 [0.75]

M3 QUICK CONNECT



THK .030 [0.75]

M5 WIRE WRAP

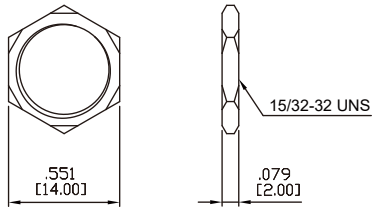


THK .030 [0.75]

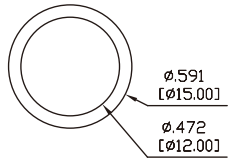
OPTION CODE	DIM.'A'
M5-1	.750 [19.05]
M5-2	.964 [24.48]
M5-3	.425 [10.80]
M5-4	1.062 [26.97]

HARDWARE

NUT



O-Ring



CONTACT MATERIAL OPTIONS

Coding	Contact Material	Terminal Plating	Rating	Agency Approvals
Q	Silver [1]	Silver plated [1]	5Amps @ 125VAC or 28VDC 2Amps @ 250VAC	
P		Tin plated [5 7]		
R	Gold [2]	Gold plated [4]	0.4VA max @ 20V max (AC or DC)	
K		Tin plated [5 6]		
G	Silver [1]	Gold over silver [3]	5Amps @ 125VAC or 28VDC 2Amps @ 250VAC	

1. Movable Contact / Terminals: Copper alloy, silver plated.
2. Movable Contact: Copper alloy with gold plated over nickel plated.
3. Terminals: Silver plated with outer layer in gold plating.
   Terminals: Copper alloy, with gold plated over nickel plated.
5. Outer Terminals: Copper alloy with pure tin plated.
6. Terminal Contact: Gold plated over nickel plated.
7. Terminal Contact: Palladium nickel alloy (or Silver) plated.

* P, K not availabe with M1 and M3 terminals
* 6Amps (Movable Contact: coin silver, silver plated) available to model ON-NONE-ON without UL approval