

TACT
SWITCHESNAVIGATION
SWITCHESPUSHBUTTON
SWITCHESTOGGLE
SWITCHESROCKER
SWITCHESSLIDE
SWITCHESSNAP-ACTION
SWITCHESDIP
SWITCHESKEYLOCK
SWITCHESROTARY
SWITCHESDETECTOR
SWITCHESCAP
OPTIONS

SERIES D16, P16, L16 SWITCHES

PUSHBUTTON SWITCHES - ILLUMINATED



SPECIFICATIONS

Contact Rating: 5A@250 VAC-UL, VDE
8A@125 VAC - UL, CSA
6A@24 VDC - UL, CSA

Life Expectancy (Mechanical): 100,000 cycles

Life Expectancy (Electrical): 50,000 cycles

Contact Resistance: 100mΩ max. typical; initial @ 2-4 VDC

Insulation Resistance: > 1,000MΩ

Dielectric Strength: > 1,500 volts 1 minute
> 3,000 volts between poles

Actuation Force: 300g/pole

Operating Temperature: -20°C to 55°C

FEATURES & BENEFITS

- ▶ Modular interface/contact block design
- ▶ Robust product for industrial applications
- ▶ Attractive front panel design
- ▶ Illuminated options available

APPLICATIONS/MARKETS

- ▶ Industrial controls
- ▶ Instrumentation
- ▶ Transportation
- ▶ Telecommunications

MATERIALS

Switch Housing: Polyetherimide (PEI)
Contact Housing: Diallyl Phthalate (DAP)
Lens: Polycarbonate (PC)
Contacts: Silver plated copper alloy
Terminals: Silver plated copper alloy

HOW TO ORDER

SERIES	MECHANICAL CONFIGURATION	PUSHBUTTON HEAD	CIRCUIT	LAMP TYPE & VOLTAGE	LAMP COLOR (WHERE APPLICABLE)	LENS COLOR
D16 = Solder Lug P16 = Socket L16 = Pilot Indicator	EE = Latching OA = Momentary PL* = Pilot Indicator *For L16 (Pilot Indicator)	S1 S2 T1 T2 R* R1 *R (Mushroom Head) Available for D16 & P16 Only.	0* = Pilot Ind. 1**= SPDT 2 = DPDT 3 = 3PDT 4 = 4PDT *For L16 only (Pilot Indicator) **P16 available SPDT only	0 = None A B C F G H J K M N L D E	Red Grn Red Grn Yel	RED= Red GRN= Green BLU= Blue* WHT= White* ORG= Orange* YEL= Yellow* *Not Available For 'R' Mushroom Head.

▶ ▶ ▶ **Example Ordering Number**
D16-EE-R1-3-A-BLU

Specifications subject to change without notice.



E-SWITCH®

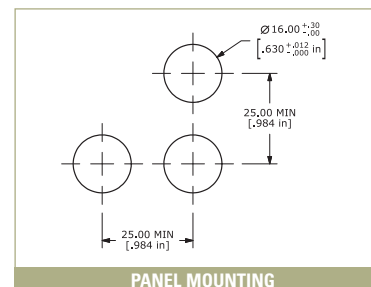
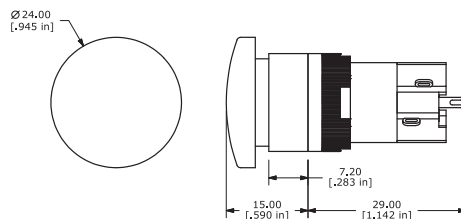
SERIES D16 SWITCHES

PUSHBUTTON SWITCHES - ILLUMINATED

D16 (SOLDER LUG)

R

MUSHROOM

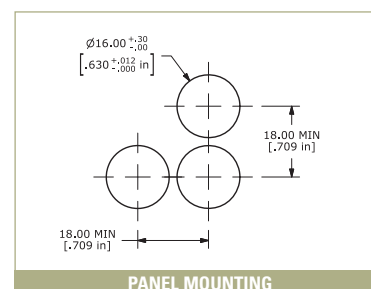
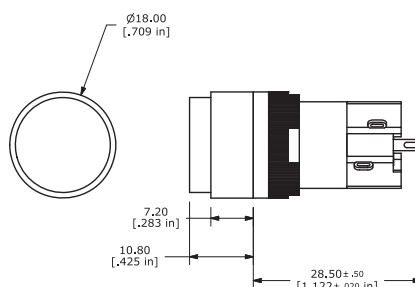


PANEL MOUNTING

D16 (SOLDER LUG)

R1

ROUND

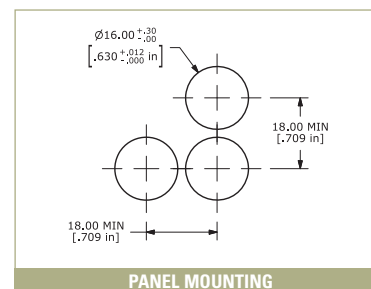
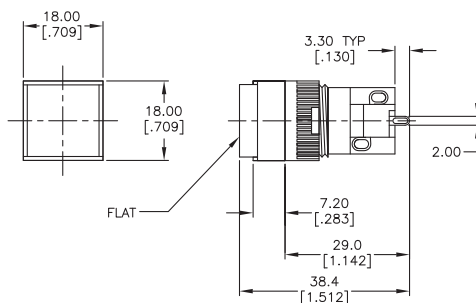


PANEL MOUNTING

D16 (SOLDER LUG)

S1

SQUARE

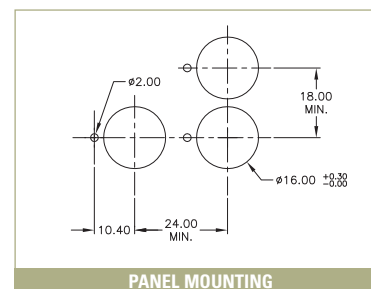
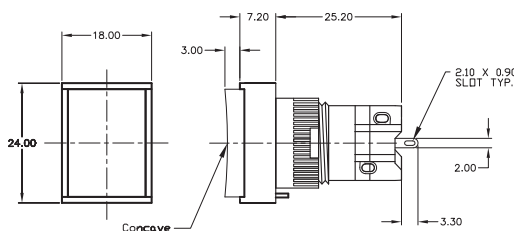


PANEL MOUNTING

D16 (SOLDER LUG)

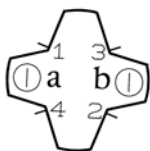
T1

RECTANGULAR

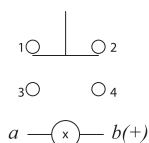


PANEL MOUNTING

BOTTOM VIEW



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MOUNTING LENGTH

	Mounting Length (A)
SPDT	29.0 mm
DPDT	36.5 mm
3PDT	44.0 mm
4PDT	51.5 mm

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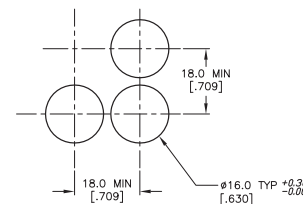
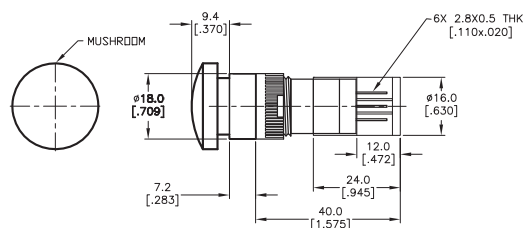
SERIES P16 SWITCHES

PUSHBUTTON SWITCHES - ILLUMINATED

P16 (SOCKET)

R

MUSHROOM

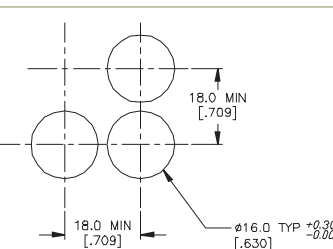
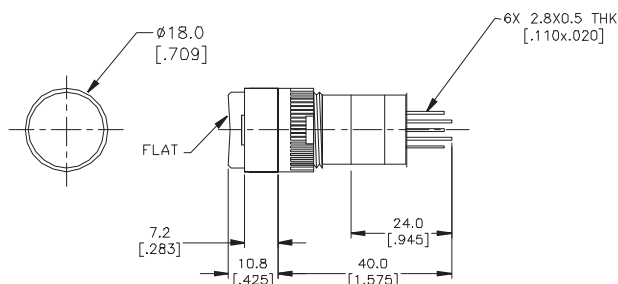


PANEL MOUNTING

P16 (SOCKET)

R1

ROUND

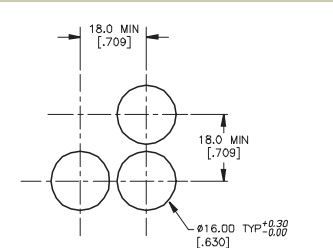
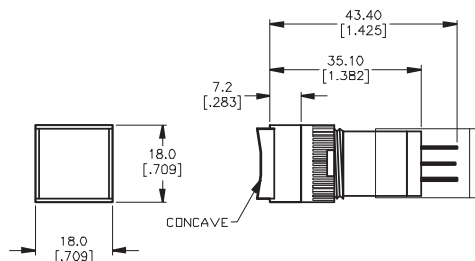


PANEL MOUNTING

P16 (SOCKET)

S1

SQUARE

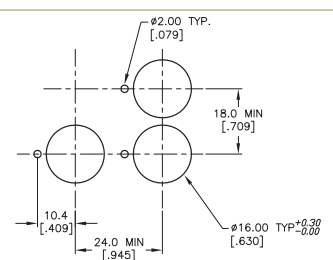
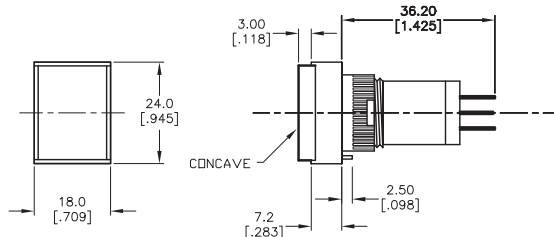


PANEL MOUNTING

P16 (SOCKET)

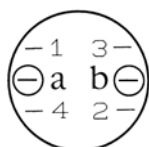
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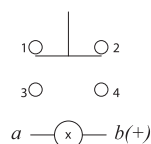


PANEL MOUNTING

BOTTOM VIEW



SCHEMATIC





E-SWITCH®

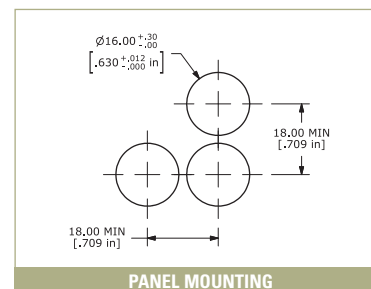
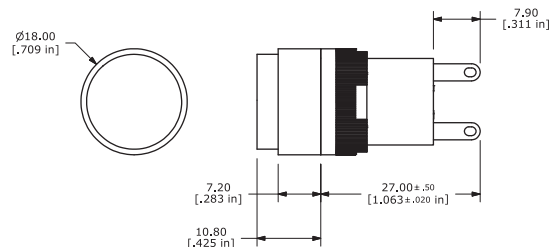
SERIES L16 SWITCHES

PUSHBUTTON SWITCHES - ILLUMINATED

L16 (PILOT INDICATOR)

R1

ROUND

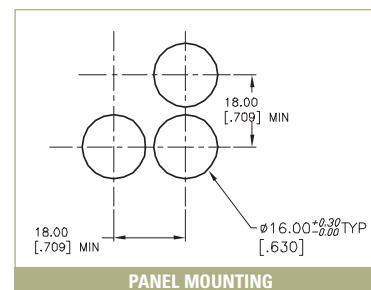
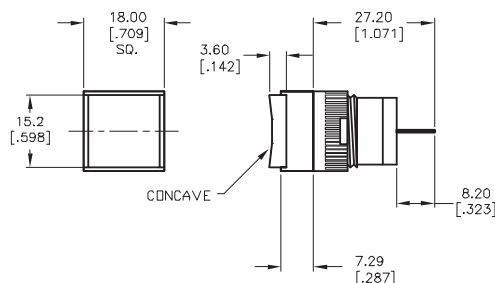


PANEL MOUNTING

L16 (PILOT INDICATOR)

S1

SQUARE

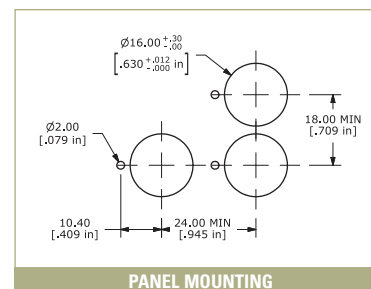
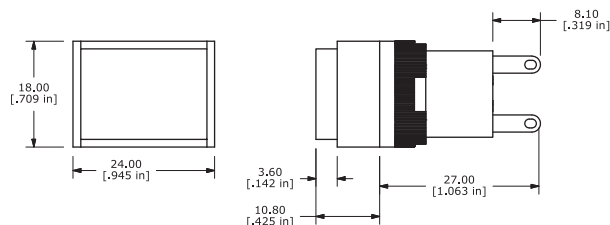


PANEL MOUNTING

L16 (PILOT INDICATOR)

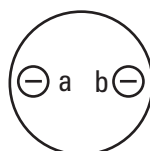
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RECTANGULAR

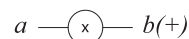


PANEL MOUNTING

BOTTOM VIEW



SCHEMATIC





SERIES D16, P16, L16 SWITCHES

PUSHBUTTON SWITCHES - ILLUMINATED

MECHANICAL CONFIGURATION & CIRCUIT OPTIONS

0 PILOT INDICATOR

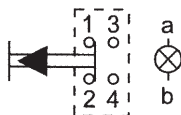
Available 'L16' Pilot Indicator Type



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1 SPDT**

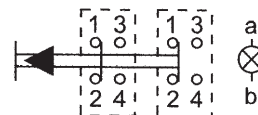
Available for 'P16' Socket Type and 'D16' Solder Lug



SCHEMATIC

2 DPDT

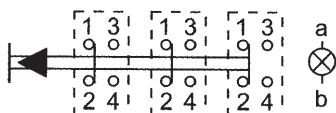
Available for 'D16' Solder Lug



SCHEMATIC

3 3PDT

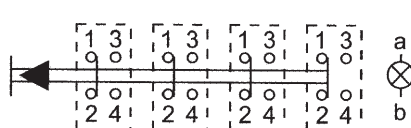
Available for 'D16' Solder Lug



SCHEMATIC

4 4PDT

Available for 'D16' Solder Lug



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Mechanical Configuration Code

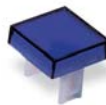
EE	Latching
OA	Momentary
PL	Pilot Indicator*

*'L16' Series only

LAMP TYPE & VOLTAGE OPTIONS

ILLUSTRATION	CATEGORY	DESCRIPTION	COLOR	PART NO.	
	Incandescent	A = 6V AC/DC 200 mA	Not Applicable	50-004-02	
		B = 14V AC/DC 80 mA		50-004-04	
		C = 28V AC/DC 40 mA		50-004-05	
		D = 48V AC/DC 25 mA		50-004-06	
		E = 60V AC/DC 20 mA		50-004-07	
		L = 33V AC/DC 35 mA		50-004-08	
		N = 14V AC/DC 40 mA		50-004-03	
		M = 6V AC/DC 40 mA		50-004-01	
	Neon	F = 110V AC	green red	50-004-11 50-004-12	
		G = 220V AC	green red	50-004-13 50-004-14	
		LED	H = 6V DC	green red yellow	50-004-16 50-004-17 50-004-18
			J = 12V DC	green red yellow	50-004-19 50-004-20 50-004-21
K = 24V DC			green red yellow	50-004-22 50-004-23 50-004-24	



ILLUSTRATION		STYLE	SHAPE	COLOR	PART NO.
	Available Color Lens (Acrylic Resin)	Round	Concave	blue green orange red white yellow	50-001-01 50-001-02 50-001-03 50-001-04 50-001-05 50-001-06
		Rectangular	Concave	blue green orange red white yellow	50-002-01 50-002-02 50-002-03 50-002-04 50-002-05 50-002-06
		Square	Concave	blue green orange red white yellow	50-003-01 50-003-02 50-003-03 50-003-04 50-003-05 50-003-06
		Mushroom Head	Convex	green red	50-012-01 50-012-02
		Round	Flat	blue green orange red white yellow	50-001-11 50-001-12 50-001-13 50-001-14 50-001-15 50-001-16
		Rectangular	Flat	blue green orange red white yellow	50-002-11 50-002-12 50-002-13 50-002-14 50-002-15 50-002-16
		Square	Flat	blue green orange red white yellow	50-003-11 50-003-12 50-003-13 50-003-14 50-003-15 50-003-16

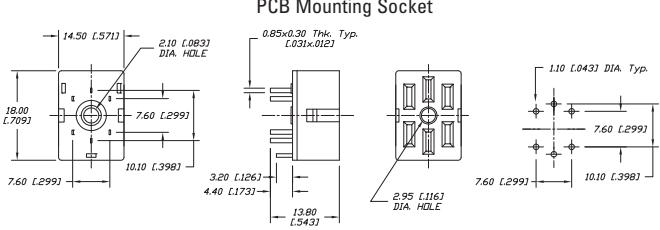
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ILLUSTRATION	CATEGORY	DESCRIPTION	PART NO.
	Lamp Extractor * Also available for LA Series	Lamp removing tool	50-005-01
	Blanking Plate Block	PVC stopper to stuff the superfluous hole of the panel board	50-013-01
	Connector * Also available for LA Series	Insulation Socket 2.8 x 0.5 mm	50-014-01
 	PCB Mounting Socket		50-015-01
	Mounting Wrench * Also available for LA Series	Use this for tightening the switch in the mounting hole	50-006-01
	Lens Removing Tool	Use this for replacing the fitted color lens	50-007-01
	Spray Cover	Meets requirement of IP65, two pieces of transparent plastic, rectangular head	50-010-01
	Protection Cap	To avoid faulty operation, housing for locking, transparent For square head (90°) For square head (180°) For rectangular head (90°) For rectangular head (180°)	50-011-01 50-011-11 50-011-02 50-011-12