



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SERIES D16, P16, L16 SWITCHES

## PUSHBUTTON SWITCHES - ILLUMINATED

TACT SWITCHES

NAVIGATION SWITCHES

PUSHBUTTON SWITCHES

TOGGLE SWITCHES

ROCKER SWITCHES

SLIDE SWITCHES

SNAP-ACTION SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

DETECTOR SWITCHES

CAP OPTIONS



### 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	F   Red G   Grn  H   Red J   Grn K   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.



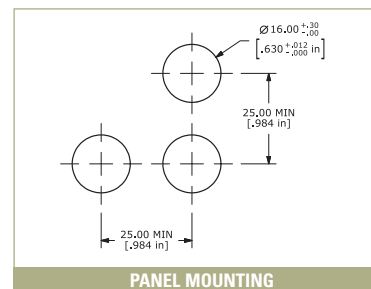
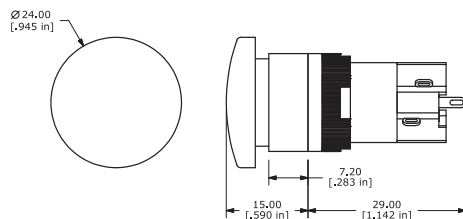
# SERIES D16 SWITCHES

## PUSHBUTTON SWITCHES - ILLUMINATED

### D16 (SOLDER LUG)

R

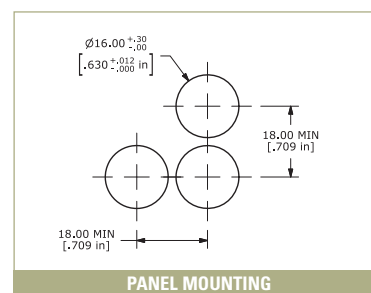
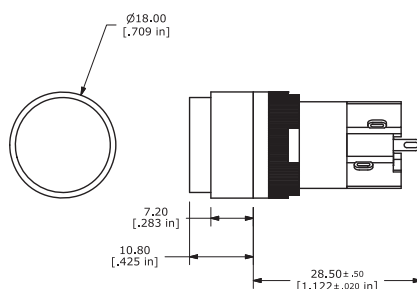
MUSHROOM



### D16 (SOLDER LUG)

R1

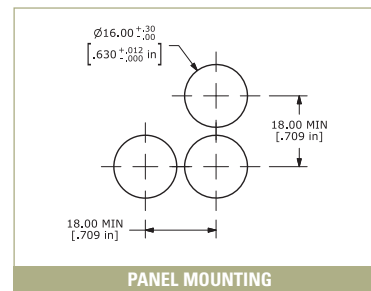
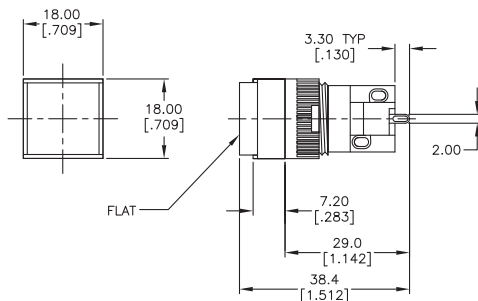
ROUND



### D16 (SOLDER LUG)

S1

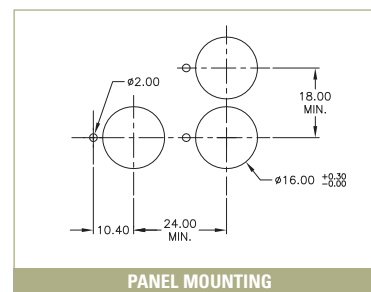
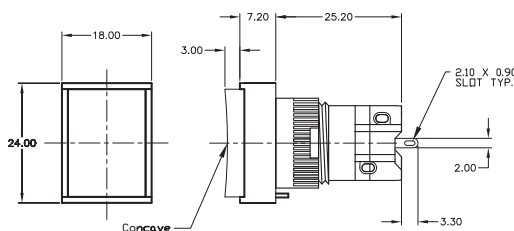
SQUARE



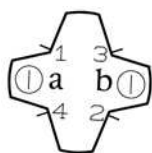
### D16 (SOLDER LUG)

T1

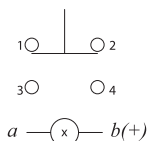
RECTANGULAR



#### BOTTOM VIEW



#### SCHEMATIC



#### MOUNTING LENGTH

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



# SERIES P16 SWITCHES

## PUSHBUTTON SWITCHES - ILLUMINATED

TACT SWITCHES

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PUSHBUTTON SWITCHES

TOGGLE SWITCHES

ROCKER SWITCHES

SLIDE SWITCHES

SNAP-ACTION SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

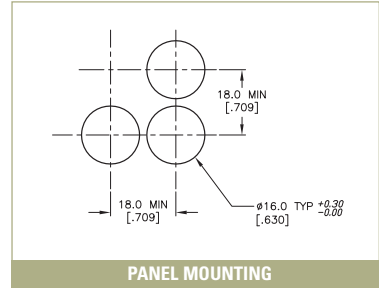
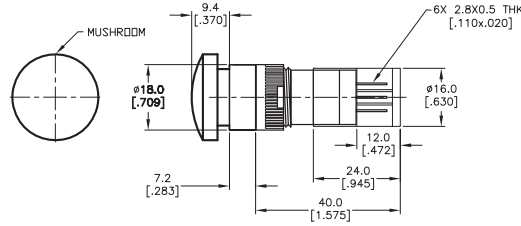
DETECTOR SWITCHES

CAP OPTIONS

### P16 (SOCKET)

R

MUSHROOM

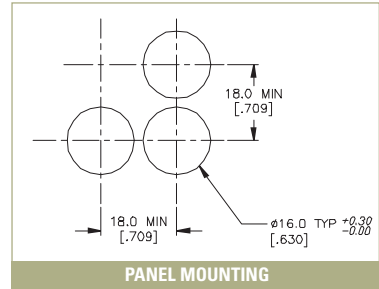
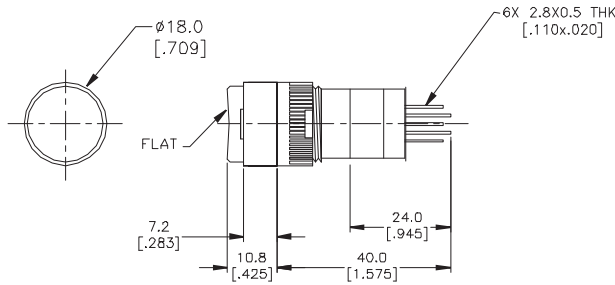


PANEL MOUNTING

### P16 (SOCKET)

R1

ROUND

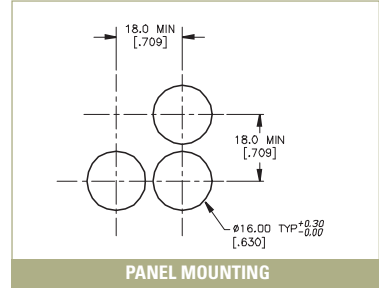
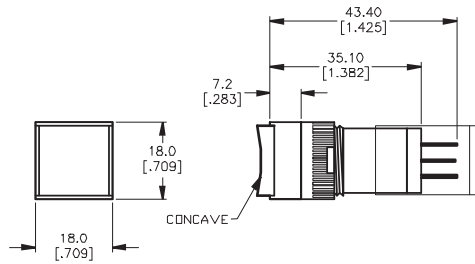


PANEL MOUNTING

### P16 (SOCKET)

S1

SQUARE

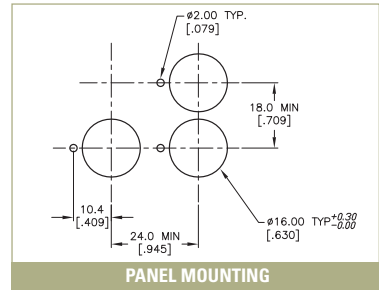
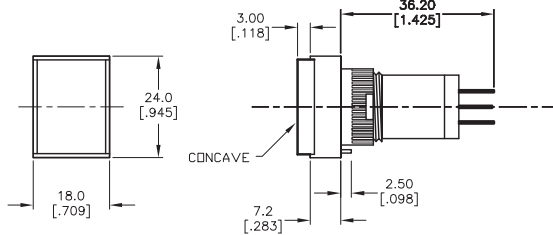


PANEL MOUNTING

### P16 (SOCKET)

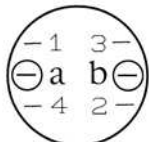
T1

RECTANGULAR

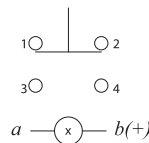


PANEL MOUNTING

BOTTOM VIEW



SCHEMATIC





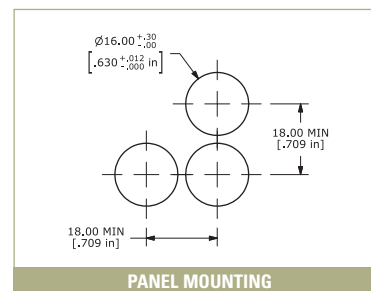
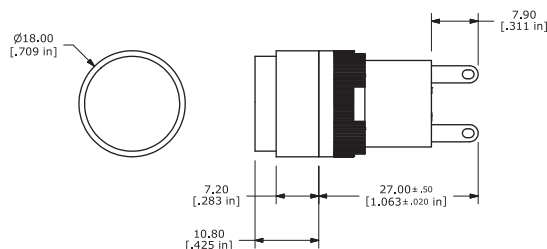
# SERIES L16 SWITCHES

## PUSHBUTTON SWITCHES - ILLUMINATED

### L16 (PILOT INDICATOR)

R1

ROUND

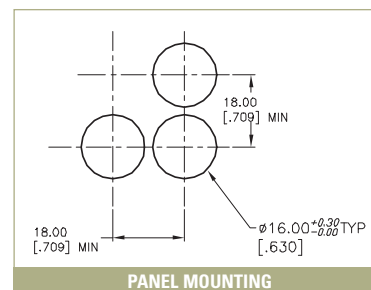
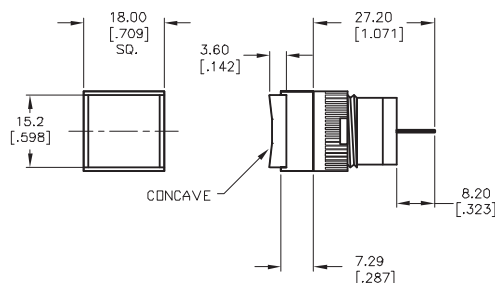


PANEL MOUNTING

### L16 (PILOT INDICATOR)

S1

SQUARE

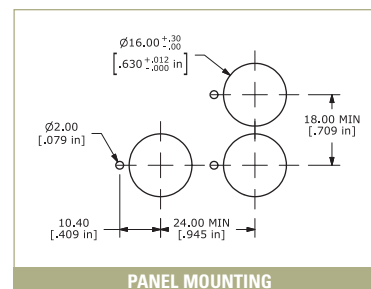
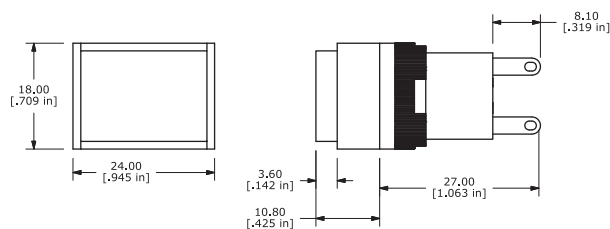


PANEL MOUNTING

### L16 (PILOT INDICATOR)

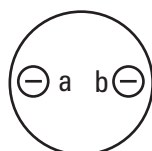
T1

RECTANGULAR

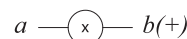


PANEL MOUNTING

#### BOTTOM VIEW



#### SCHEMATIC



# SERIES D16, P16, L16 SWITCHES

## PUSHBUTTON SWITCHES - ILLUMINATED

TACT SWITCHES

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SNAP-ACTION SWITCHES

DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

DETECTOR SWITCHES

CAP OPTIONS

### MECHANICAL CONFIGURATION & CIRCUIT OPTIONS

#### 0 PILOT INDICATOR

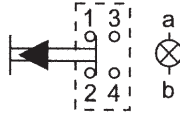
Available 'L16' Pilot Indicator Type



SCHEMATIC

#### 1 SPDT\*\*

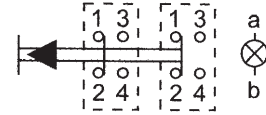
Available for 'P16' Socket Type and 'D16' Solder Lug



SCHEMATIC

#### 2 DPDT

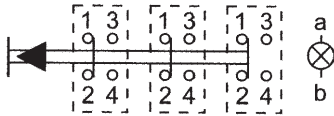
Available for 'D16' Solder Lug



SCHEMATIC

#### 3 3PDT

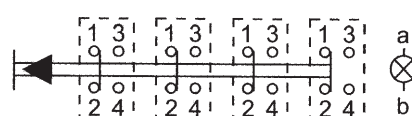
Available for 'D16' Solder Lug



SCHEMATIC

#### 4 4PDT

Available for 'D16' Solder Lug



SCHEMATIC

#### 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	50-004-11
			red	50-004-12
		G = 220V AC	green	50-004-13
			red	50-004-14
	LED	H = 6V DC	green	50-004-16
			red	50-004-17
			yellow	50-004-18
		J = 12V DC	green	50-004-19
			red	50-004-20
			yellow	50-004-21
K = 24V DC	green	50-004-22		
	red	50-004-23		
	yellow	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

TACT  
SWITCHES

NAVIGATION  
SWITCHES

PUSHBUTTON  
SWITCHES

TOGGLE  
SWITCHES

ROCKER  
SWITCHES

SLIDE  
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SNAP-ACTION  
SWITCHES

DIP  
SWITCHES

KEYLOCK  
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ROTARY  
SWITCHES

DETECTOR  
SWITCHES

CAP  
OPTIONS

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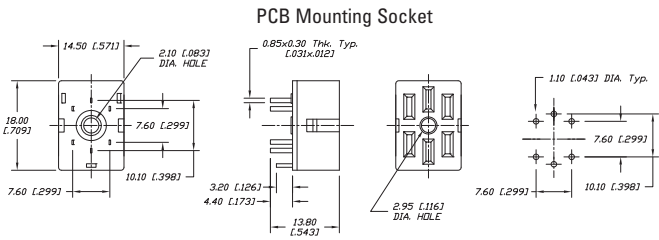




DIP SWITCHES

KEYLOCK SWITCHES

ROTARY SWITCHES

DETECTOR SWITCHES

CAP OPTIONS

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