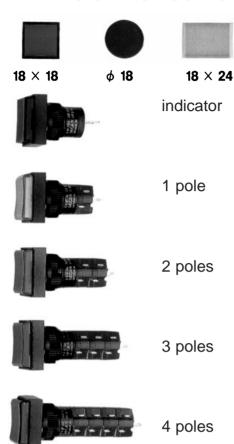
16 SERIES PUSHBUTTON SWITCHES AND INDICATORS



According to performance. 16 series pushbutton switches can be further categoried into the following 3 types:

- (1) Illuminated push-button switch (Momentary or Alternate action)
- (2) Non-illuminated push-button switch(Momentary or Alternate action)
- (3) Pilot indicators.

In terms of shapes our products can be divided into three types.

- (1) Round type (Dia 18mm)
- (2) Rectangular type (18 \times 24mm)
- (3) Square type (18 \times 18mm)

The aforesaid big variety offers a high flexibility for you to meet the actual requirements for functions and shapes. However, the mounting hole diameter for all the products is 16mm. For the mounting, just have the nut at the rear of the panel fastened in a very convenient way.

Our contactors are with quality silver contact points so as to ensure electrical stability and the life span. Each contact block has N.C(Normal Close) contact points and N.O.(Normal Open)contact points. Code number 1-2 for wiring stand for N.C. contact points: whereas 3-4 stand for N.O. contact points Each switch may have a maximum of 4 contact blocks; which means that total contact points will have 4 NC's and 4 NO's As each block is of independent device, wiring work can be done simultaneously by use of different voltages, but the contact points for N.C. or N.O. of the contact block must not be simultaneously connected to different voltages, except for the voltage lower than 40V AC/DC. The tags with code a-b are exclusively for indicators: if LED is to be used as the indicator, then tag b is positive pole. Push-cap can be replaced, and legend plate can be inserted between color cap and lens.

Product specifications:

Switch system: Each contact block has one double break snap action switching mechanism.

Switch mode: Momentary or alternate action. 1-4 poles

Contact material: Soldering type - silver is standard; socket type - pin with golden plating.

Body material: High-grade temperature resistant thermoplastic. Contact housing moulded in electrical

high-grade thermosetting plastic.

Operating travel: 3.0 mm.

Actuating force: 2-5N depending on no. of contact block.

Mechanical lifetime: > 2 million operations.

Electrical life time: alternate action momentary action $5A/250V AC > 5.0 \times 10^4$ operations $> 2.5 \times 10^4$ operations $4A/250V AC > 1.2 \times 10^5$ operations $> 6.0 \times 10^4$ operations $2A/250V AC > 4.0 \times 10^{5}$ operations $> 2.0 \times 10^{5}$ operations $1A/250V AC > 8.0 \times 10^{5}$ operations $> 4.0 \times 10^{5}$ operations

Initial contact resistance : < 10m Ω current 1A AC. according to IEC-341 test 1, silver contact.

< 15m Ω 20mV. according to IEC 341-1 test II, gold contact

Terminal: diameter of wire 2×0.8 mm

diameter of standard cable 0.75mm² max.

Electric rating: 250V AC 5A 125V AC 8A

> 250V DC 0.2A 24V DC 6A.

Max torque of nut: maximum 15kgfcm

Max. insulation voltage: 2000V, 60Hz, 1 min. between all terminals and ground.

Acceleration: > 10g in all 3 planes

Vibration resistance: IEC 68-2-6 test. Soldering heat resistance: 280 °C 4 ses

Insulation resistance: IEC 341-1, > 1000 megaohms 500V DC.

Panel thickness: 8 mm max. *Alternate action: push-on, push-off

Degree of protection: IP 40

Storage temperature : -40 °C to +85 °C

Operating temperature: -25 °C to +55 °C with lamp -25 °C to +70 °C without lamp

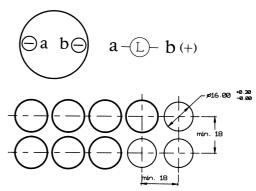
ROUND HEAD PILOT INDICATORS



3.6 10.8

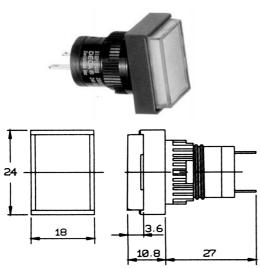
Accessories see page 13~14 Technical data see page 2 Ordering information see page 7

Bottom view

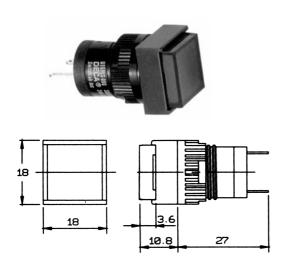


RECTANGULAR HEAD PILOT INDICATORS

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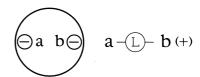


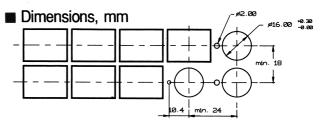
SQUARE HEAD PILOT INDICATORS



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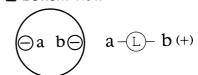
■ Bottom view

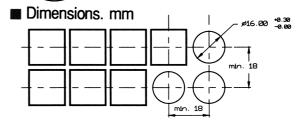




Accessories see page 13~14 Technical data see page 2 Ordering information see page 7

Bottom view





SOLDERING TYPE PUSHBUTTON SWITCHES & INDICATORS ORDER INFORMATION

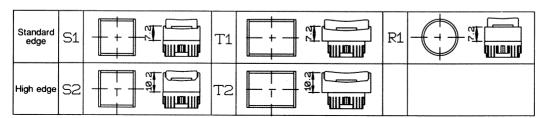
ϕ 16 mm basic type:

Functions:

LA : Soldering type pushbutton switches with alternate actionLM : Soldering type pushbutton switches with momentary action

PL : Pilot indicator

Pushbutton Head:



Contact Arrange:
000: Non contact
1ab: 1 NO + 1 NC
2ab: 2 NO + 2 NC
3ab: 3 NO + 3 NC
4ab: 4 NO + 4 NC

Lamp and Voltage:

0 : Without lamp

AC/DC A : Incandescent 6 V 200 mA B: Incandescent 14 V AC/DC 80 mA AC/DC 40 mA C : Incandescent 28 V F : Neon 110 V AC areen / red G: Neon 220 V AC areen / red

H: LED 6 V DC green / yellow / red
J: LED 12 V DC green / yellow / red
K: LED 24 V DC green / yellow / red

Special type :

6 V M: Incandescent AC/DC 40 mA 40 mA AC/DC N : Incandescent 14 V AC/DC 33 V 35 mA L : Incandescent AC/DC 25 mA D : Incandescent 48 V 60 V AC/DC 20 mA E: Incandescent

Color Lens:

B: Blue G: Green O: Orange R: Red W: White Y: Yellow

Order Example :

If you want to order a round head illuminated pushbutton switch with a yellow color lens 60V DC 20 mA incendescent lamp, 3NO +3NC contacts, alternate action

It's order # as : D16LAR1-3abEY

If you want to order a rectanqular head pushbutton switch with high edge, non-illuminated and red color lens, 2NO + 2NC contacts momentary action

It's order # as : D16LMT2-2abOR

If you want to order a square head pilot indicator with standard edge, blue color lens, 28V DC 40mA incandescent lamp.

It's order # as : D16PLS1-000CB