

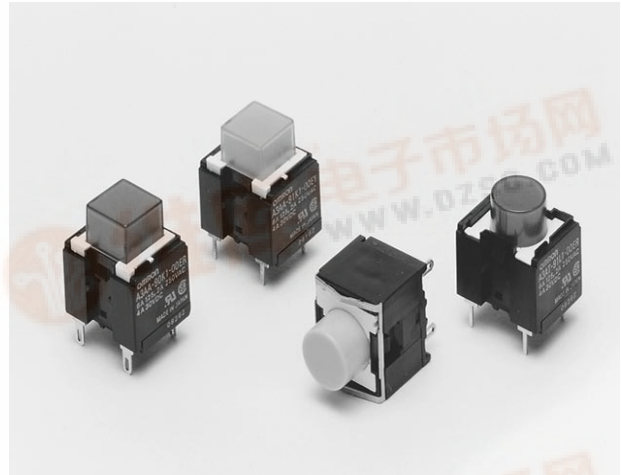
OMRON

Lighted Pushbutton Switch

A3A

Compact Switch Unit Allows Signal and Power Switching in the Same Model

- Capable of switching within the range 1mA 5VDC to 6A 125VAC.
- Mounting direct to PCB, or panel mounting using appropriate bezel.
- Requires only 14.5mm behind panel depth.
- Options include:
 - Round or Square
 - Momentary or Latching
 - Illuminated or Non-illuminated



Ordering Information

A3A ☐₁ -9 ☐₂ ☐₃ 1-00 ☐₄

☐ 1 Pushbutton Shape

Code	Shape
A	Square
T	Round

☐ 2 Terminals

Code	Type
0	Solder
1	PCB

☐ 3 Action

Code	Action
K	Momentary
L	Alternate

☐ 4 Pushbutton

Code	Colour Type	Type
ER	Red	Illuminated
EY	Yellow	Illuminated
EG	Green	Illuminated
L	Grey	Non-illuminated
R	Red	Non-illuminated
Y	Yellow	Non-illuminated
G	Green	Non-illuminated
A	Blue	Non-illuminated
B	Black	Non-illuminated

Specifications

LED Ratings

Absolute Maximum

Characteristic	Unit	Value
Reverse Voltage	V _R	4V
Forward Current	I _F	25mA
Permissible loss	P _D	70mW
Operating Temp	T _{OPR}	-20 to + 75 C
Storage Temp	T _{STO}	-30 to + 100 C

Contact Ratings

Voltage (V)	Current (A)			
	Resistive	Lamp	Inductive	Motor
125 AC	6	1	2	1
250 AC	2	0.5	1	0.5
8 DC	4	1	2	1
14 DC	4	1	2	1
30 DC	4	1	1.5	1
125 DC	0.4	0.05	0.4	0.05
250 DC	0.4	0.03	0.2	0.03

Note: Min. permissible load 1mA 5VDC

LED Ratings

Standard Ratings

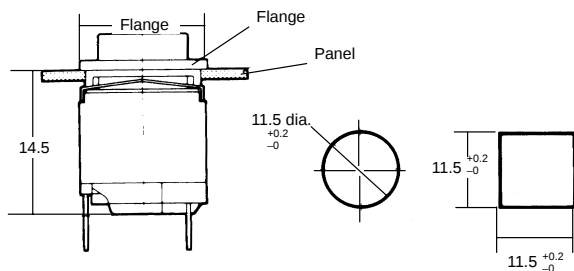
Characteristic	Unit	Condition	Typical	Max
Forward voltage	V _F	I _F = 15mA	2.05V	2.8V
Reverse current	I _R	V _R = 4V	—	100mA

■ Characteristics

Insulation resistance	100MΩ min. (at 500VDC)
Dielectric strength	600 VAC, 50/60Hz for 1 minute between terminals of same polarity 2,000VAC, 50/60Hz for 1 minute between terminals of different polarity and also between each terminal and ground
Vibration	Mechanical and malfunction durability: 10 to 55Hz, 1.5mm double amplitude
Shock	Mechanical durability: 500 m/s ² (approx. 50 G) Mechanical durability: 150 m/s ² (approx. 15 G)
Ambient temperature	Operating: -10°C to 55°C
Humidity	35 to 85% RH
Life expectancy	Mechanical: Momentary action type: 1,000,000 operations min. Alternate action type: 50,000 operations min. Electrical: 50,000 operations min.
Weight	Approx. 3.2g

Dimensions

Panel cutout
For separate mounting



* Recommended panel thickness: 1 to 1.6 mm

** Flange dimensions:

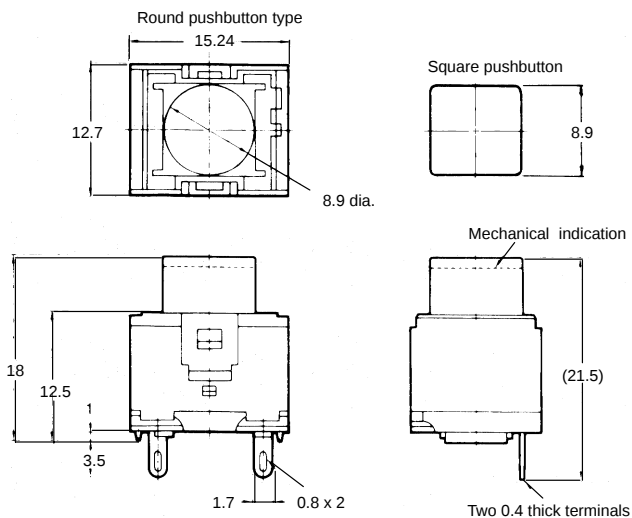
Round: 12.7 dia.

Square: □ 12.7

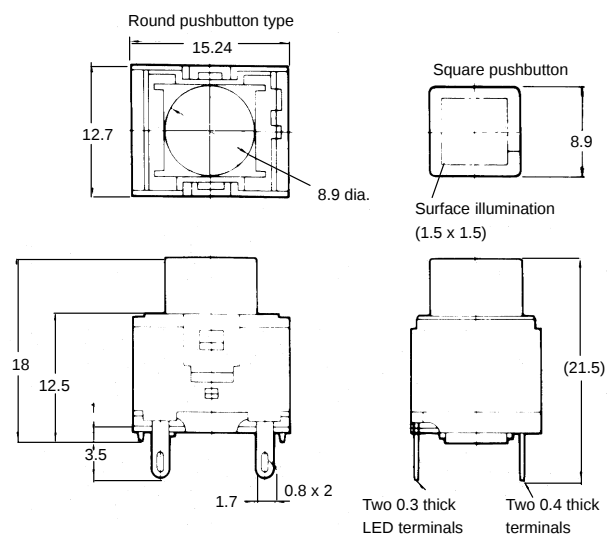
	For round pushbutton	For square pushbutton
Horizontal multiple mounting		
Vertical Multiple mounting		

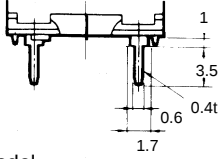
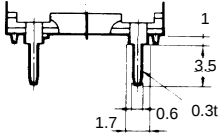
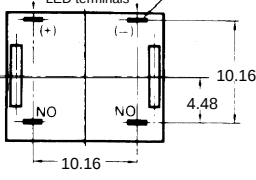
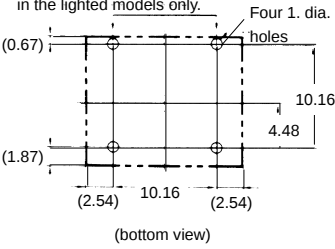
Note: 1. Unless otherwise specified, a tolerance of ± 0.2 mm applies to all dimensions.
2. The illustrations below show switches with solder terminals, without flange or leafspring.

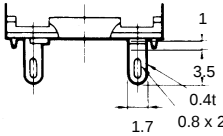
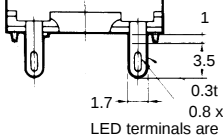
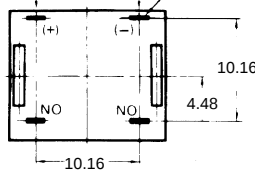
Non-lighted



Illuminated



Type	High capacity (SPST-NO)
PCB Terminals	Non-lighted model
	 Dimensions: 1, 3.5, 0.6, 0.4t, 1.7
	Lighted model
	 Dimensions: 1, 3.5, 0.6, 0.3t, 1.7 LED terminals are provided in the lighted models only  Dimensions: 10.16, 4.48, 10.16 LED terminals (+), (-) NO
	Mounting holes
	Mounting holes are provided in the lighted models only.  Four 1. dia. holes Dimensions: (0.67), (1.87), (2.54), 10.16, 4.48, 10.16 (bottom view)

Type	High capacity (SPST-NO)
Solder terminals	Non-lighted model
	 Dimensions: 1, 3.5, 0.4t, 1.7, 0.8 x 2
	Lighted model
	 Dimensions: 1, 3.5, 0.3t, 1.7, 0.8 x 2 LED terminals are provided in the lighted models only  Dimensions: 10.16, 4.48, 10.16 LED terminals (+), (-) NO

Accessories (Order Separately)

Flange (select according to colour)

Name	Shape	Classification	Model	Remarks
Flange		Flange alone	Black	A3A–251
			Light grey	A3A–252
			Black	A3A–241
			Light grey	A3A–242
		Leaf spring		A3A–200
		Flange and leaf spring (one each)	Black	A3A–221
			Light grey	A3A–222
			Black	A3A–211
Light grey			A3A–212	

Note: Switch units having solder terminals are supplied with a black flange (appropriately round or square) and a metal leaf spring, used when panel mounting.