IDEC Miniature Switches & Pilot Devices

CSA Certified

File No. LR21451

ø16mm - A6 Series

A6 Series — Miniature Switches and Pilot Devices: 16mm

CE

Key features of the A6 series switches and pilot lights include:

- 16mm (5/8") mounting hole
- LED illumination
- Compact design saves space
- Momentary, Maintained, Selectors, and E-Stops
- · Gold-clad Silver contacts for reliable low level switching
- Snap action contacts
- IP40 (dustproof) or IP65 (oiltight) versions

UL Recognized

File No.E55996



	Degree of Protection		IP40: Dustproof					
	•		IP65 Waterproof/Oiltight/Corrosion Resistant					
	Contact Configuration		SPDT, DPDT					
	Maximum Voltage		250V AC/DC					
	Thermal Current		3A					
	Minimum Applicable Load		5V AC/DC, 1mA (subject to operating conditions)					
	Contact Material		Gold-clad silver					
	Terminal Style		.110" Solder/ Quick Connect					
2	Operating Temperature		LED Type: -25° to +55°C (no freezing)					
tior	Operating Humidity		45 to 85% RH					
ical	Contact Resistance		50m Ω maximum (initial value)					
Specifications	Insulation Resistance		100M Ω minimum	(500V DC n	negger)			
Spe	Vibration Resistance		10 to 55Hz, amplitude 1.5mm p-p					
	Shock Resistance		Damage limits: 500m/sec ² (approx. 50G) Operating extremes: 200m/sec ² (approx. 20G)					
	Electrical Life		100,000 operations minimum (at full rated load)					
	Mechanical Life		Maintained: 100,000 operations minimum Momentary: 1,000,000 operations minimum Selector/Keylock: 250,000 operations minimum					
	Dielectric Strength		Switch Unit: 2,000VAC, 1 min. between live/dead part and terminals of different poles; 1,000V AC, 1 minute between terminals of the same pole; 1,500V AC, 1 minute between contact and lamp terminals. Illumination Unit: 2,000VAC, 1 min. between live part/ground					
	Soldering Temperature		20W/5 seconds or 260°C/3 seconds					
s	Operating Voltage		24V		120V		240V	
ting	AC (50/60Hz)	Resistive			1.0A		0.5A	
it Ra		Inductive	_		0.7A		0.5A	
Contact Ratings	DC	Resistive	1.0A		0.2A		_	
చి	DC	Inductive	0.7A		0.1A		_	
tings	Rated Voltage/Current		5V DC ±5%	V DC ±5% 6V AC/DC (±1		12V AC/DC (±10%)	24V AC/DC (±10%)	
LED Lamp Ratings			8mA	DC: A, R, W, Y: 6mA G, S: 5mA AC: A, R, W, Y: 8mA G, S: 7mA		DC: 8mA AC: 9mA	DC: 8mA AC: 9mA	

1. AC Inductive Load, PF = 0.6 - 0.7; DC Inductive Load, L/R = 7ms.

2. Minimum applicable load (reference value) is 5V AC/DC/1mA (applicable range is subject to the operating conditions and load).

3. LED lamp contains a built-incurrent-limiting resistor and a protection diode.

4. LED's don't "burn out." Luminance is reduced to 50% of initial intensity after being lit for 50,000 hours continuously.

A2-17

Miniature Switches & Pilot Devices

AB6 Non-Illuminated Pushbuttons (Assembled)							
Par	t Numbers: Non-Illu	minated	Pushbuttons				
	0	0			umber		
	Style	Contact	Mom Dustproof (IP40)	entary Oiltight (IP65)	Maintained (Latching) Dustproof (IP40) Oiltight (IP65)		
	Round 18mm		Dustprool (1P40)	Unitylit (1P03)	Dustproor (1P40)	Unitylit (1P05)	
Ę		SPDT DPDT	AB6M-M1-① AB6M-M2-①	AB6M-M1P-① AB6M-M2P-①	AB6M-A1-1 AB6M-A2-1	AB6M-A1P-① AB6M-A2P-①	
	Square 18mm						
Standard Button	1	SPDT DPDT	AB6Q-M1-① AB6Q-M2-①	AB6Q-M1P-① AB6Q-M2P-①	AB60-A1-① AB60-A2-①	AB6Q-A1P-① AB6Q-A2P-①	
S	Rectangular 18mm x						
	24mm	SPDT DPDT	AB6H-M1-① AB6H-M2-①	AB6H-M1P-① AB6H-M2P-①	AB6H-A1-① AB6H-A2-①	AB6H-A1P-① AB6H-A2P-①	
	Round 23.5mm						
	6	SPDT DPDT	-	AB6M-M1P-M AB6M-M2P-M	_	AB6M-A1P-M AB6M-A2P-M	
ton	Square 23.5mm						
Oversize Button		SPDT DPDT	-	AB6Q-M1P-Q1 AB6Q-M2P-Q1	_	AB6Q-A1P-Q① AB6Q-A2P-Q①	
	Rectangular 17.5 X 23.5mm						
		SPDT DPDT	_	АВ6Q-М1Р-Н АВ6Q-М2Р-Н	-	AB6Q-A1P-H AB6Q-A2P-H	

① Button Color Code						
Color	Code					
Black	В					
Green	G					
Red	R					
Blue	S					
White	W					

Υ

Yellow

IDEC

1. In place of ^①, specify Button Color Code from the table at the right.

2. To order as sub-assembled, see page A2-19.

3. For accessories, see page A2-25.

4. For dimensions, see page A2-27.

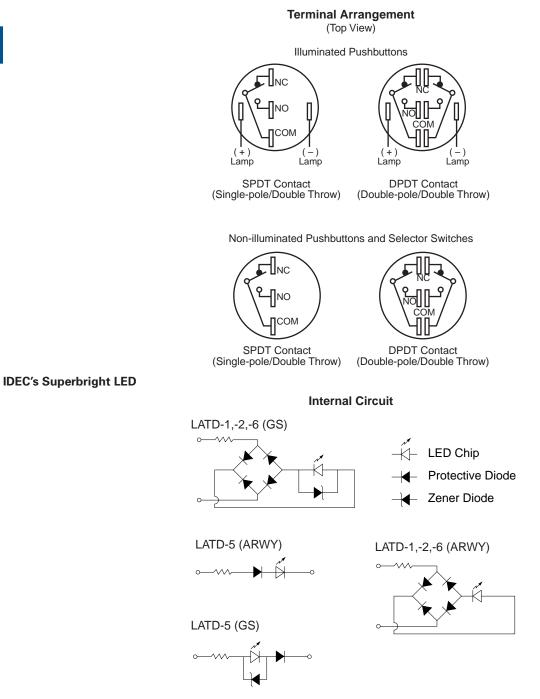
Part Numbers: AB6-V Pushlock Turn Reset

Shape	Operation	Contact	Part Number Dustproof (IP40) Oiltight (IP65)		Remarks
23.5mm Round Mushroom					
6	Pushlock Turn Reset	SPDT DPDT	AB6M-V1-R AB6M-V2-R	AB6M-V1P-R AB6M-V2P-R	1. Button available in red only. 2. Replacement button: order AB6M-V-R

Part Numbers: Buzzer

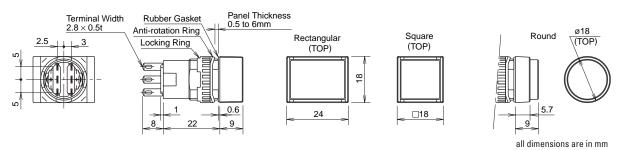
Style	Shape	Voltage	Part Number
- n T (R)		12V DC	UZ6-11
	Round (18mm)	24V DC	UZ6-12

Schematics — A Series: 5/8" (16mm)

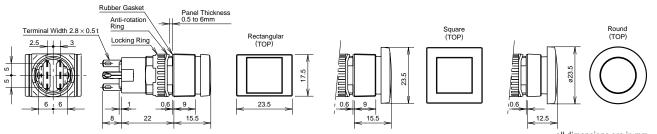


Dimensions — A Series: 5/8" (16mm)

Pushbuttons, Ø 5/8" (16mm)

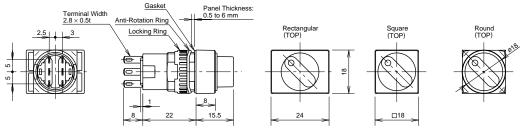


Large Size Lens



all dimensions are in mm

Selector Switches, Ø 5/8" (16mm)



all dimensions are in mm

