Sealed pushbutton switches • bushing Ø 16 mm • latching



SWIRLATCH 1803

DISTINCTIVE FEATURES

Latching action models
Sealed to IP67
Illuminated or non-illuminated
Flat round actuator for optional marking



ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing: IP67 according to IEC 60529
- Shock resistance: 100 g according to IEC 512-4, test 6c
- Vibration resistance: 10-500Hz 10 g according to IEC 512-4, test 6d
- Salt spray: IEC 512-6, test 11f
- Operating temperature: -40 °C to +85 °C (-40 °F to +185 °F)



ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load (gold plated contacts) :
- Code 4: 100 mA 24V DC, 200,000 cycles
- Code 7: 4 A 12 VDC, 200,000 cycles
- 1 A 48 VDC, 200,000 cycles
- 3 A 48 VDC, 75,000 cycles
- Initial contact resistance : 100 $\text{m}\Omega$ max.
- Insulation resistance : 1 $\text{G}\Omega$ min. at 500 VDC
- Dielectric strength: 1,500 Vrms between terminals





		LED COMPONENT SPECIFICATIONS		
LED color	Forward current	Typ. forward voltage	Max. forward voltage	
Super red (0S)	20 mA	1.95 V	1.95 V	
Yellow (0Y)	20 mA	2 V	2.05 V	
Green (0G)	20 mA	2.1 V	2.5 V	
Blue (0B)	20 mA	3.2 V	4 V	

A resistor must be series-connected by the user.

Resistor value = supply voltage - LED forward voltage

LED forward current

On flying lead versions, the LED resistor can be integrated by APEM on request.

The company reserves the right to change specifications without notice.

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GENERAL SPECIFICATIONS

- Panel thickness: 8 mm (.314) max.
- Total travel : 2.5 mm (.098) ± 0.3 mm
- Typical operating force : 5 N ± 2 N
- Low level or mechanical life: 200,000 cycles
- Torque: 0.8 Nm max. applied to nut
- Soldering: 320 °C (608 °F) max. for 3 sec.



MATERIALS

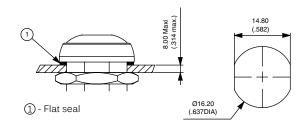
- Case: thermoplastic UL94-V0
- Plunger: polyamide
- Bushing/bezel : polyamide
- Contacts: silver, gold plated (codes 4 and 7)
- Multi-wire leads AWG20, section 0.6 mm²
- LED wire: AWG26, section 0.12 mm²
- Lens : polycarbonate
- Terminal seal: epoxy

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

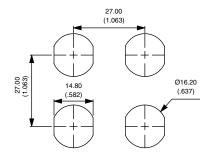


MOUNTING

PANEL CUT-OUT

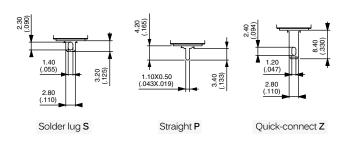


MATRIX MOUNTING





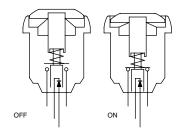
TERMINALS



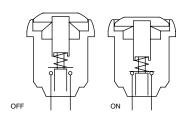


ELECTRICAL FUNCTIONS

ILLUMINATED MODELS



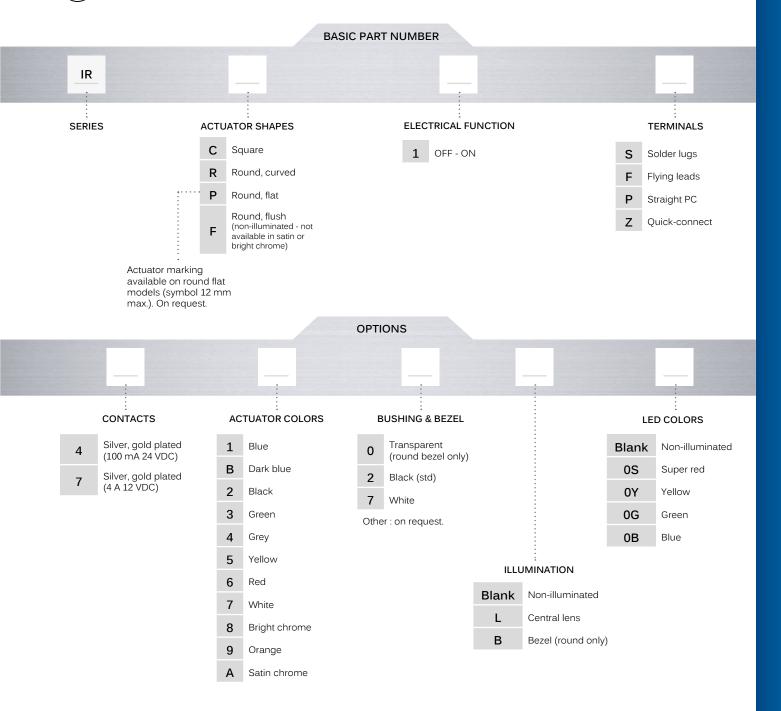
NON-ILLUMINATED MODELS



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(£3)

BUILD YOUR PART NUMBER





ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- Notice: please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- (a) A sealing boot is available to protect the switches against frost and sand (P/N U7125). Round models only. See "Sealing Boots" section of website.
- Mounting accessories: Standard hardware supplied: 1 hex nut 19 mm (.748) across flats and 1 flat seal. Hex nut P/N U6715.

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ROUND - ILLUMINATED SOLDER LUG TERMINALS



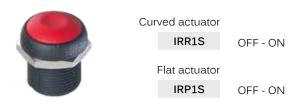
Also available with straight PC terminals: IR•1P & quick-connect terminals: IR•1Z.

ROUND - ILLUMINATED FLYING LEAD TERMINALS



Wire colors: black: contact, red: LED anode (+), blue: LED cathode (-)

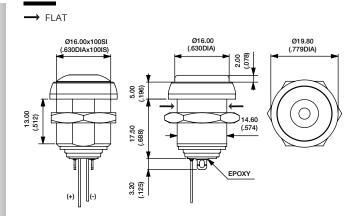
ROUND - NON-ILLUMINATED SOLDER LUG TERMINALS

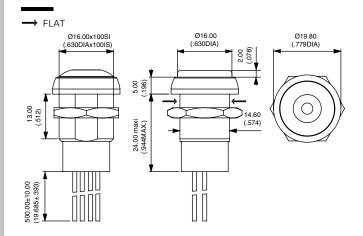


Also available with straight PC terminals: IR•1P & quick-connect terminals: IR•1Z.

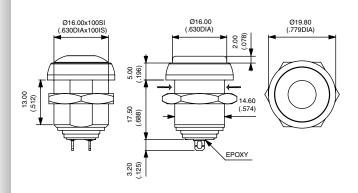
ROUND - NON-ILLUMINATED FLYING LEAD TERMINALS

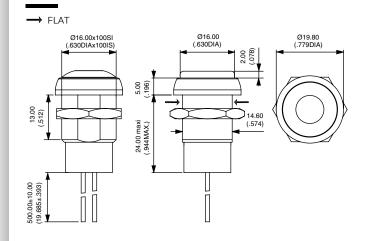






→ FLAT





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SQUARE - ILLUMINATED SOLDER LUG TERMINALS



Also available with straight PC terminals: IR•1P & quick-connect terminals: IR•1Z.

SQUARE - ILLUMINATED FLYING LEAD TERMINALS



Wire colors: black: contact, red: LED anode(+), blue: LED cathode (-)

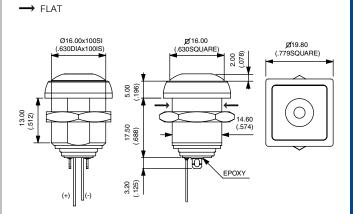
SQUARE - NON-ILLUMINATED SOLDER LUG TERMINALS

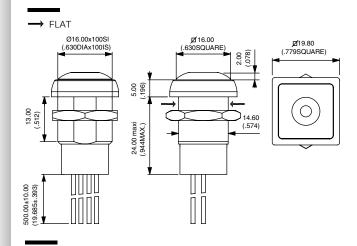


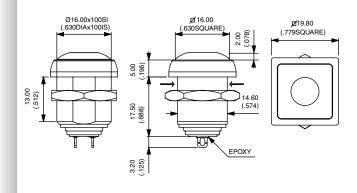
Also available with straight PC terminals : IRC1P4 & quick-connect terminals : IRC1Z4.

SQUARE - NON-ILLUMINATED FLYING LEAD TERMINALS

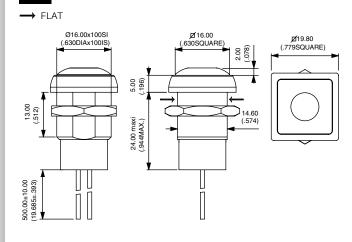








→ FLAT



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ACTUATOR COLORS							
BASIC P/	N						
B [] 2 E] 3 () () () () () () () () () (Blue Dark blue Black Green Grey Cellow Red White Bright chrome Drange Satin chrome						
BUSHING AND BEZEL							
BASIC P/	N						
2 E	Fransparent (round bezel only Black (standard) White	()					
ILLUMINATION							
BASIC P/	N						
L (Non-illuminated Central lens Bezel (round only)						
LED COLORS							
BASIC P/	N]				
05 S 0Y Y 0G G	Non-illuminated Super red Yellow Green Blue						