imall

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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Sealed pushbutton switches • bushing Ø 16 mm • latching



5MIRATCH1803

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 m Ω max.
- Insulation resistance : 1 G Ω min. at 500 VDC
- Dielectric strength : 1,500 Vrms between terminals

LED COMPONENT SPECIFICATIONS						
LED color	Forward current	Typ. forward voltage	Max. forward voltage	A resistor must be series-connected by the user. Resistor value = supply voltage - LED forward voltage LED forward current		
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	On flying lead versions, the LED resistor can be integrated by APEM on request.		
Blue (0B)	20 mA	3.2 V	4 V			

The company reserves the right to change specifications without notice.





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) GENERAL SPECIFICATIONS

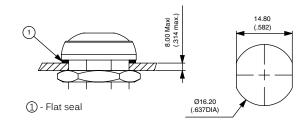
- Panel thickness : 8 mm (.314) max.
- Total travel : 2.5 mm (.098) ± 0.3 mm
- Typical operating force : 5 N \pm 2 N
- Low level or mechanical life : 200,000 cycles
- Torque : 0.8 Nm max. applied to nut
- Soldering : 320 °C (608 °F) max. for 3 sec.

D MATERIALS

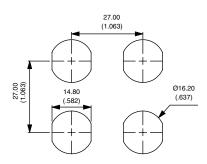
- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : polyamide
- Contacts : silver, gold plated (codes 4 and 7)
- Multi-wire leads AWG20, section 0.6 mm²
- LED wire : AWG26, section 0.12 mm²
- Lens : polycarbonate
- Terminal seal : epoxy

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

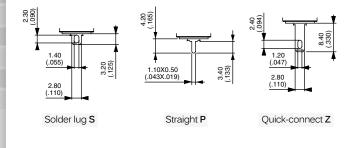
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PANEL CUT-OUT
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MATRIX MOUNTING



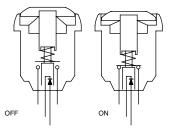




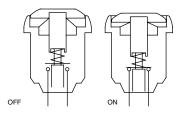


ELECTRICAL FUNCTIONS

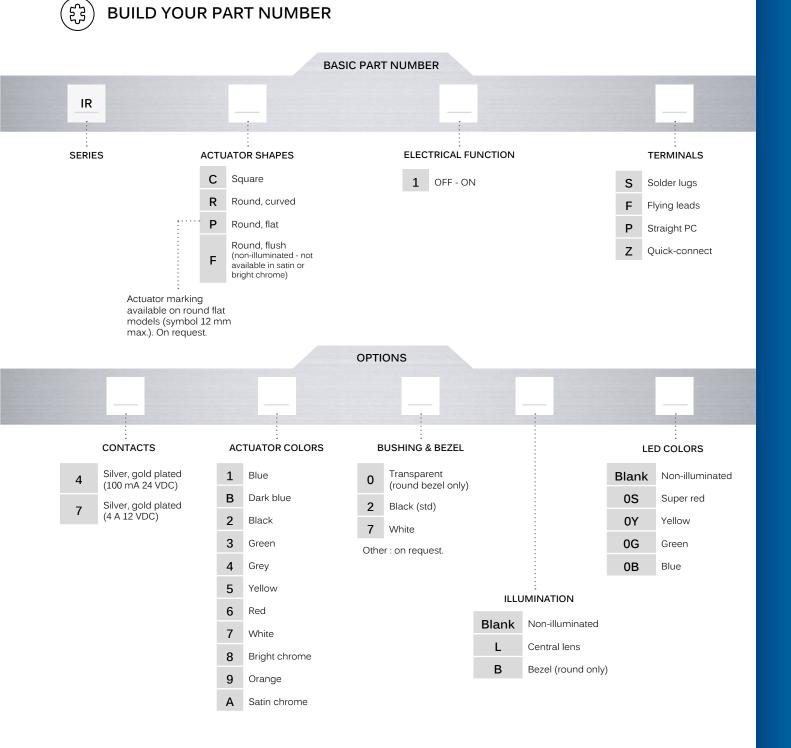
ILLUMINATED MODELS



NON-ILLUMINATED MODELS



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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.
- (b) 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.
- (h) Mounting accessories : Standard hardware supplied : 1 hex nut 19 mm (.748) across flats and 1 flat seal. Hex nut P/N U6715.

Sealed pushbutton switches • bushing Ø 16 mm • latching

ROUND - ILLUMINATED SOLDER LUG TERMINALS



Curved actuator IRR1S OFF - ON Flat actuator IRP1S OFF - ON

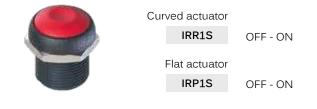
Also available with straight PC terminals : IR•1P & quick-connect terminals : IR•1Z.

ROUND - ILLUMINATED FLYING LEAD TERMINALS



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

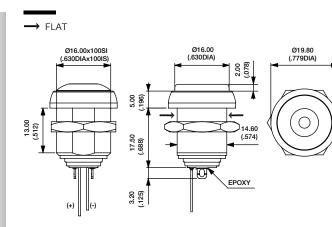
ROUND - NON-ILLUMINATED SOLDER LUG TERMINALS



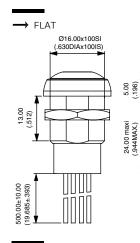
Also available with straight PC terminals : IR-1P & quick-connect terminals : IR-1Z.

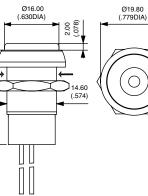
ROUND - NON-ILLUMINATED FLYING LEAD TERMINALS

Curved actuator			
IRR1F	OFF - ON		
Flat actuator			
IRP1F	OFF - ON		



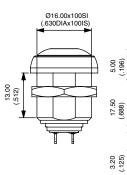
5.00 .196)

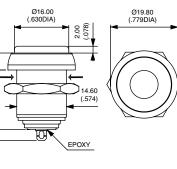


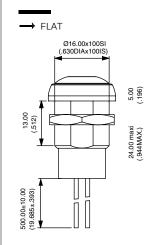


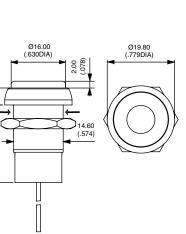


→ FLAT



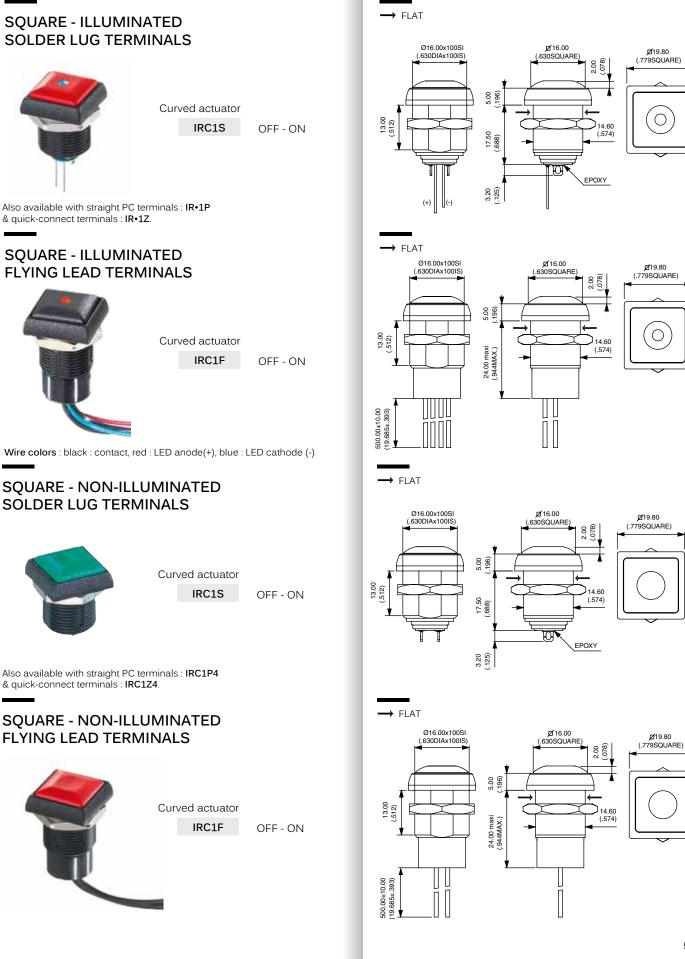






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APEM

Sealed pushbutton switches \bullet bushing Ø 16 mm \bullet latching

