

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!



### Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







Sealed pushbutton switches • bushing Ø 16 mm • momentary • standard version



Shikhohi801

#### **DISTINCTIVE FEATURES**

Screw version up to 4 A
Tactile feedback
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 : 200 mA 48 VDC, 500,000 cycles Code 7 : 5 A 28 VDC, 70,000 cycles
- Silver contacts (code 2) screw terminals: 4 A 48 VDC, 500,000 cycles
- Initial contact resistance : 100 m $\Omega$  max.
- $\bullet$  Insulation resistance : 1  $\mbox{G}\Omega$  min. at 500 VDC
- Dielectric strength : 1,500 Vrms





		LED COMPO	NENT SPECIFICATIONS
LED color	Forward current	Typ. forward voltage	Max. forward voltage
Super red (0S)	20 mA	2.1 V	2.3 V
Yellow (0Y)	20 mA	2.1 V	2.3 V
Green (0G)	20 mA	2.1 V	2.3 V
Blue (0B)	20 mA	3.2 V	3.8 V
White (0W)	20 mA	3.35 V	4.25 V
Red/Green (SG)	20 mA	Red: 1.95 V / green: 2.1 V	2.5 V
Yellow/green (YG)	20 mA	Yellow: 2 V / green: 2.1 V	2.5 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 : 1.6 mm (.062) ± 0.3 mm
- Typical operating force : 4 N ± 2 N
- Low level or mechanical life: 1,000,000 cycles
- Torque: 0.8 Nm max. applied to nut
- Soldering: 320 °C (608 °F) max. for 3 sec.



#### **MATERIALS**

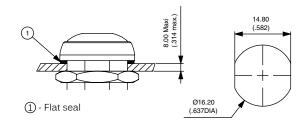
- Case: thermoplastic UL94-V0
- Actuator : polyamide 6/6
- Bushing/bezel : polyamide 6/6
- Contacts: 4 and 7: silver, gold plated
  - 2: silver (screw terminals)
- Multi-wire lead AWG20, section 0.6 mm2
- LED wire: AWG26, section 0.12 mm2
- Lens : polycarbonate
- Terminal seal : epoxy

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

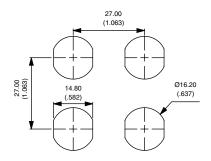


#### **MOUNTING**

PANEL CUT-OUT



MATRIX MOUNTING



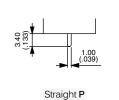


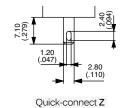
#### **TERMINALS**

ILLUMINATED MODELS



#### NON-ILLUMINATED MODELS



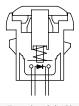


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#### **ELECTRICAL FUNCTIONS**

ILLUMINATED MODELS



Function 3 (NO)



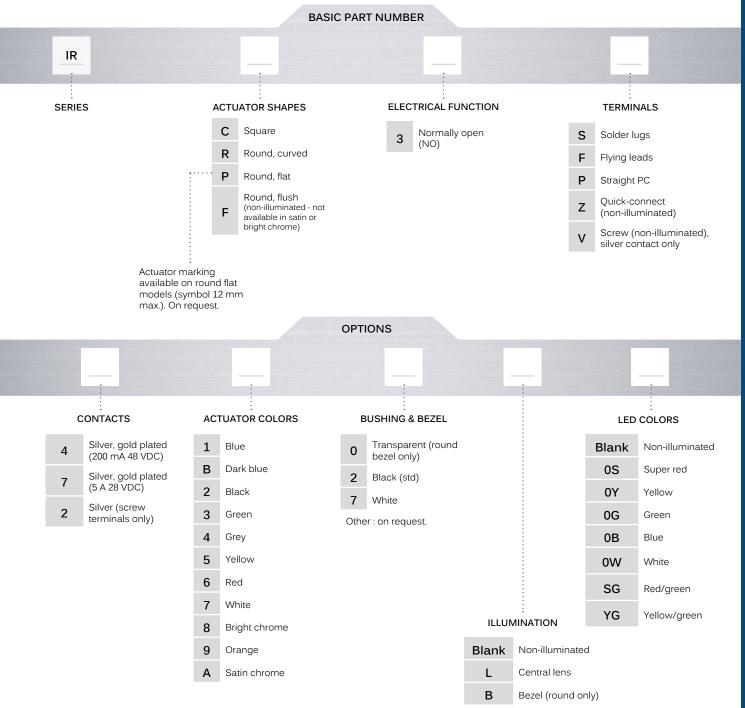
NON-ILLUMINATED MODELS

Function 3 (NO)

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#### **BUILD YOUR PART NUMBER**





#### ABOUT THIS SERIES

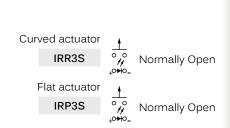
On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- Notice: please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- A sealing boot is available to protect the switches against frost and sand (P/N U7125). Round models only. See "Sealing Boot" 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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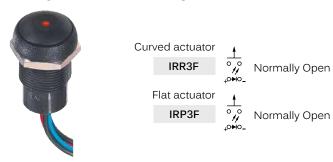
## ROUND - ILLUMINATED SOLDER LUG TERMINALS





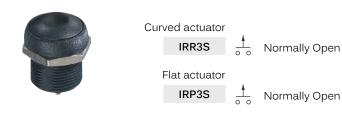
Also available with straight PC terminals: IR•3P. LED color is indicated by the bottom of the switch.

### ROUND - ILLUMINATED FLYING LEAD TERMINALS



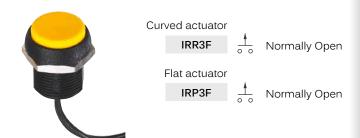
Wire colors: black: NO contact, red: LED anode (+), blue: LED cathode (-)

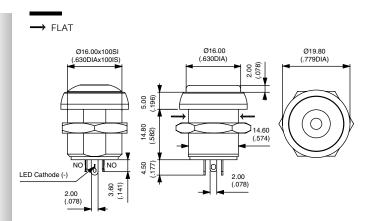
### ROUND - NON-LLUMINATED SOLDER LUG TERMINALS

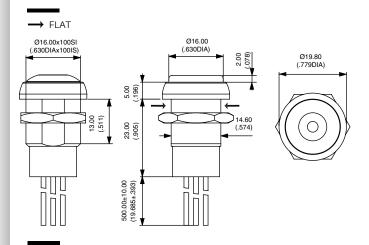


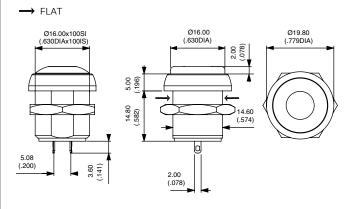
Also available with straight PC terminals : IR+3P and quick-connect terminals : IR+3Z.

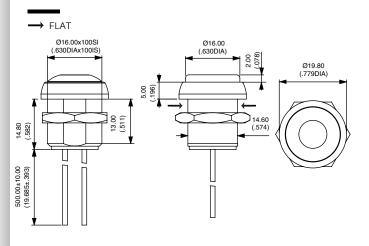
### ROUND - NON-LLUMINATED FLYING LEAD TERMINALS





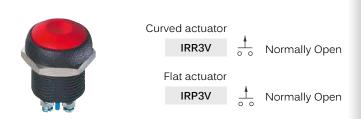






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### ROUND - NON-LLUMINATED SCREW TERMINALS



### SQUARE - ILLUMINATED SOLDER LUG TERMINALS



Also available with straight PC terminals: IRC3P. LED color is indicated by the bottom of the switch.

## SQUARE - ILLUMINATED FLYING LEAD TERMINALS

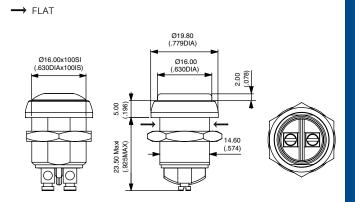


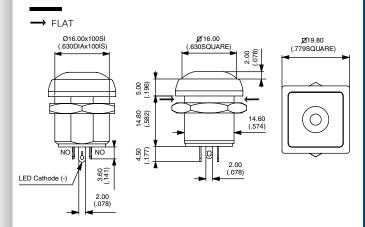
Wire colors: black: NO contact, red: LED anode (+), blue: LED cathode (-)

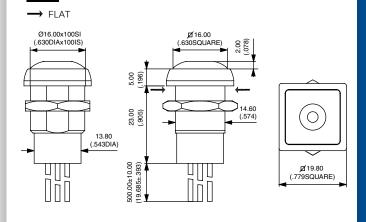
### SQUARE - NON-ILLUMINATED SOLDER LUG TERMINALS

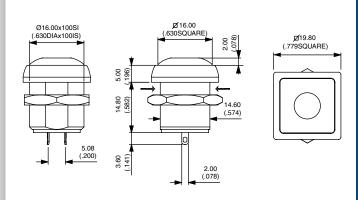


Also available with straight PC terminals: IRC3P and quick-connect terminals: IRC3Z.



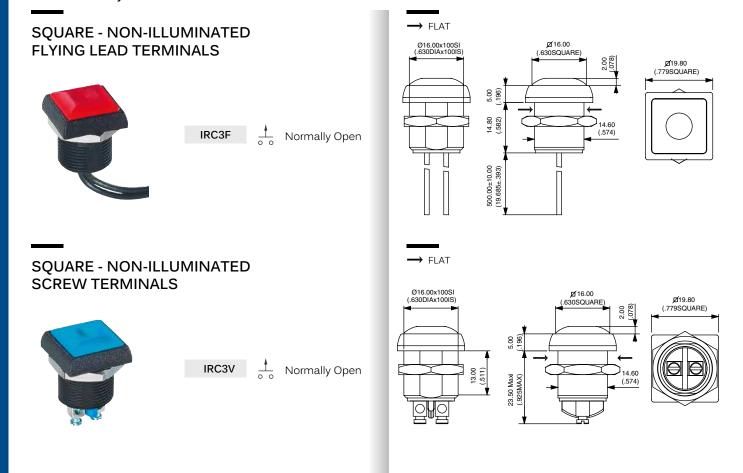






→ FLAT

Sealed pushbutton switches  $\bullet$  bushing Ø 16 mm  $\bullet$  momentary  $\bullet$  standard version



#### CONTACTS

BASIC P/N

- 4 Silver, gold plated (200 mA 48 VDC)
- 7 Silver, gold plated (5 A 28 VDC)
- 2 Silver (screw terminals only)

#### **ACTUATOR COLORS**

BASIC P/N

- 1 Blue
- B Dark blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red
- 7 White
- 8 Bright chrome
- 9 Orange
- A Satin chrome

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BUSHING AND BEZEL			
BASIC P/N			
<ul> <li>Black (standard)</li> <li>White</li> <li>Transparent (round bezel only)</li> </ul>			
ILLUMINATION			
BASIC P/N			
L Central lens B Bezel (round only)			
LED COLORS			
BASIC P/N			
OS Super red OY Yellow OG Green OB Blue OW White SG Red/green YG Yellow/green			