

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 • snap-in mounting • momentary



SN-10MOM-1108

#### **DISTINCTIVE FEATURES**

Snap-in mounting for easy installation Momentary models Illuminated or non-illuminated Flat round actuator for optional marking Sealed to IP54



### **ENVIRONMENTAL SPECIFICATIONS**

- Front panel sealing: IP54 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  $\text{m}\Omega$  max.
- $\bullet$  Insulation resistance : 1 G $\Omega$  min. at 500 VDC
- Dielectric strength: 1,500 Vrms





LED COMPONENT SPECIFICATION:							
LED color	Forward current	Typ. forward voltage	Max. forward voltage				
Super red (L0S)	20 mA	2.1 V	2.3 V				
Yellow (L0Y)	20 mA	2.1 V	2.3 V 2.3 V				
Green (L0G)	20 mA	2.1 V					
Blue (L0B)	20 mA	3.2 V	3.8 V				
White (L0W)	20 mA	3.35 V	4.25 V				
Red/Green (LSG)	20 mA	Red: 1.95 V / Green: 2.1 V	2.5 V				
Yellow/green (LYG)	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:

with flat seal: 2.20 mm (.088) max. without flat seal: 3 mm (.118) 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
- Soldering: 320 °C (608 °F) max. for 3 sec.



### **MATERIALS**

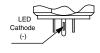
- Case: thermoplastic UL94-V0
- Actuator : polyamide 6/6
- Bushing/bezel : polyamide 6/6
- Contacts :
  - 4 and 7: silver, gold plated
- 2: silver (screw terminals)
- Multi-wire leads AWG20, section 0.6 mm<sup>2</sup>
- LED wire: AWG26, section 0.12 mm<sup>2</sup>
- Lens : polycarbonate
- Terminal seal: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



### **TERMINALS**

**ILLUMINATED MODELS** 

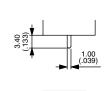


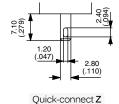


Solder lug S

Straight P

NON-ILLUMINATED MODELS



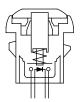


Straight P



### **ELECTRICAL FUNCTIONS**

ILLUMINATED MODELS



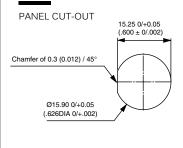
Function 3 (NO)

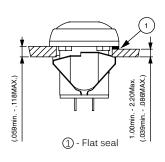


Function 3 (NO)

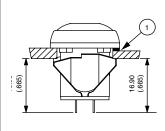


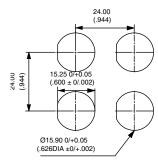
#### **MOUNTING**





BACK OF PANEL SPACE REQUIREMENT - MATRIX MOUNTING

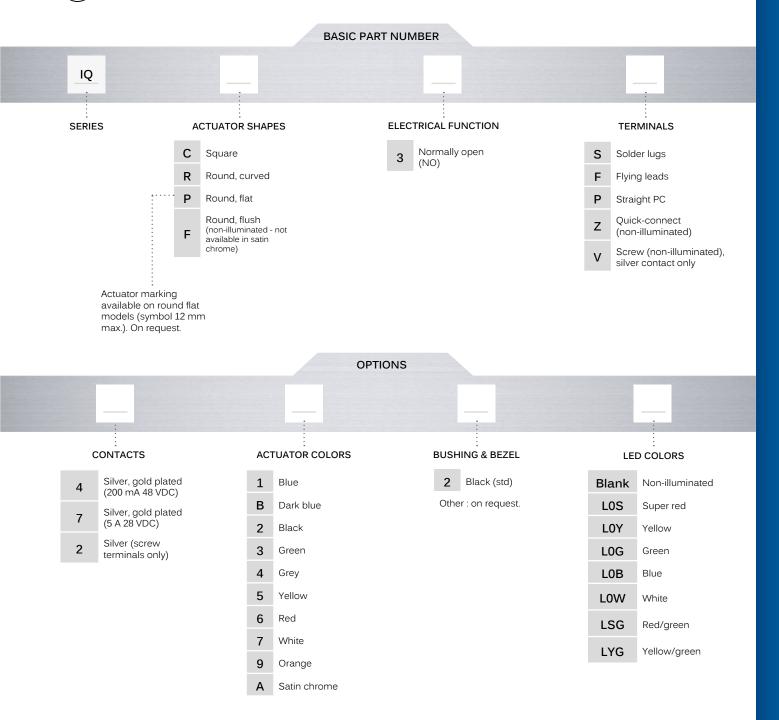




Sealed pushbutton switches • bushing Ø 16 mm • snap-in mounting • momentary

## **(£3)**

### **BUILD YOUR PART NUMBER**





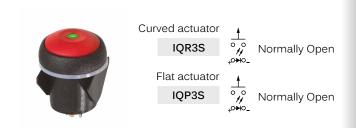
### **ABOUT THIS SERIES**

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.
  - Mounting accessories: Standard hardware supplied: 1 flat seal

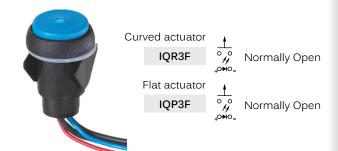
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## ROUND - ILLUMINATED SOLDER LUG TERMINALS



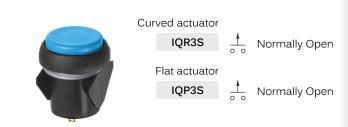
Also available with straight PC terminals: IQ•3P4. LED color is indicated by the bottom of the switch.

## ROUND - ILLUMINATED FLYING LEAD TERMINALS



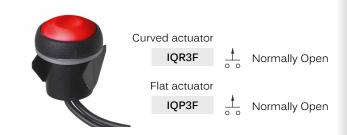
Wire colors: black: NO contact, red: LED anode (+), blue: LED cathode (-)

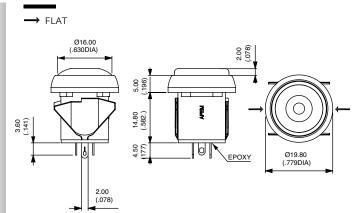
### ROUND - NON-ILLUMINATED SOLDER LUG TERMINALS

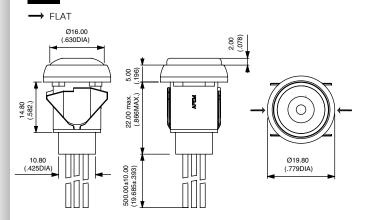


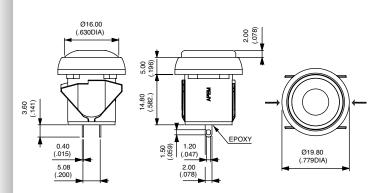
Also available with straight PC terminals :  $IQ \cdot 3P4$  and quick-connect terminals :  $IQ \cdot 3Z4$ .

## ROUND - NON-ILLUMINATED FLYING LEAD TERMINALS

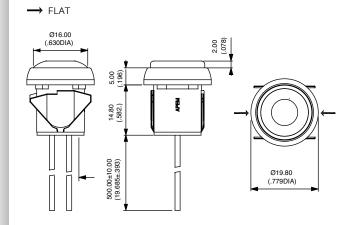






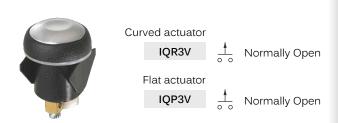


→ FLAT

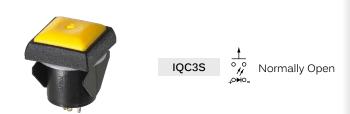


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## ROUND - NON-ILLUMINATED SCREW TERMINALS



## SQUARE - ILLUMINATED SOLDER LUG TERMINALS



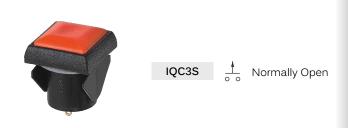
Also available with straight PC terminals: IQC3P. LED color is indicated by the bottom of the switch.

## SQUARE - ILLUMINATED FLYING LEAD TERMINALS

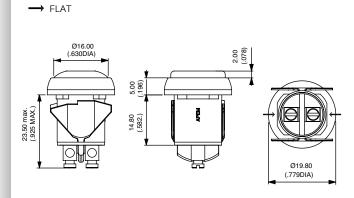


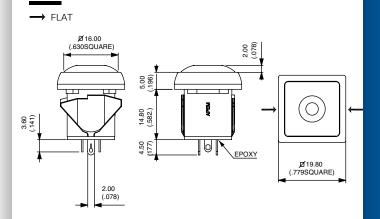
Wire colors: black: NO contact, red: LED anode (+), blue: LED cathode (-)

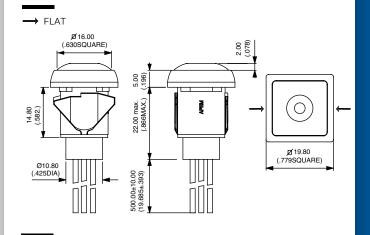
## SQUARE - NON-ILLUMINATED SOLDER LUG TERMINALS

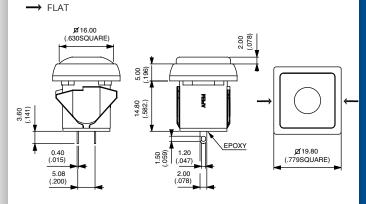


Also available with straight PC terminals: IQC3P or quick-connect terminals: IQC3Z.

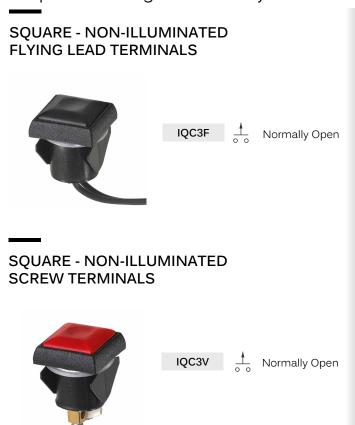


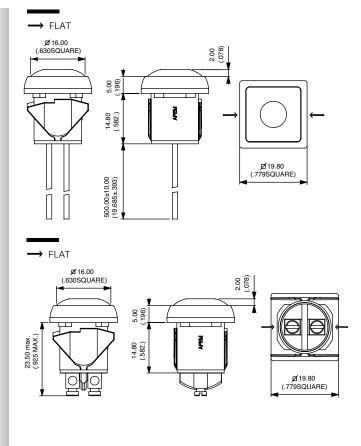






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#### **CONTACT MATERIALS**

BASIC P/N

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

Contacts 4 and 7 only for solder lug and flying lead terminals. Contacts 2 only for screw terminals.

#### **ACTUATOR COLORS**

1 Blue

BASIC P/N

- В Dark blue
- 2 Black
- 3 Green
- 4 Grey
- 5 Yellow
- 6 Red 7 White
- 9 Orange
- Α Satin chrome

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BUSHING AND BEZEL								
	BASIC	P/N	]	]				
	2	Black (standard)						
				LED CC	LORS			
	BASIC	P/N Non-illuminated	]					
	LOS	Super Red						
	LOY	Yellow						
	L0G L0B	Green Blue						
	LOW	White						
	LSG	Red/green						
	LYG	Yellow/green						