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



#### **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 :  $100 \text{ m}\Omega$  max.
- Insulation resistance : 1 G $\Omega$  min. at 500 VDC
- Dielectric strength: 1,500 Vrms

Yellow/green (YG)





	LED COMPONENT 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: 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.



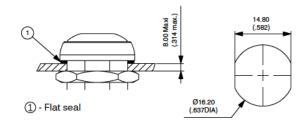
#### **MATERIALS**

- 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

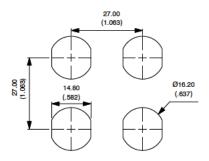


#### MOUNTING

#### PANEL CUT-OUT



#### MATRIX MOUNTING



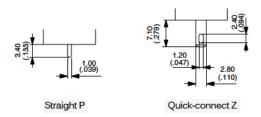


#### **TERMINALS**

ILLUMINATED MODELS



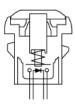
#### NON-ILLUMINATED MODELS





### **ELECTRICAL FUNCTIONS**

#### ILLUMINATED MODELS



Function 3 (NO)

## NON-ILLUMINATED MODELS

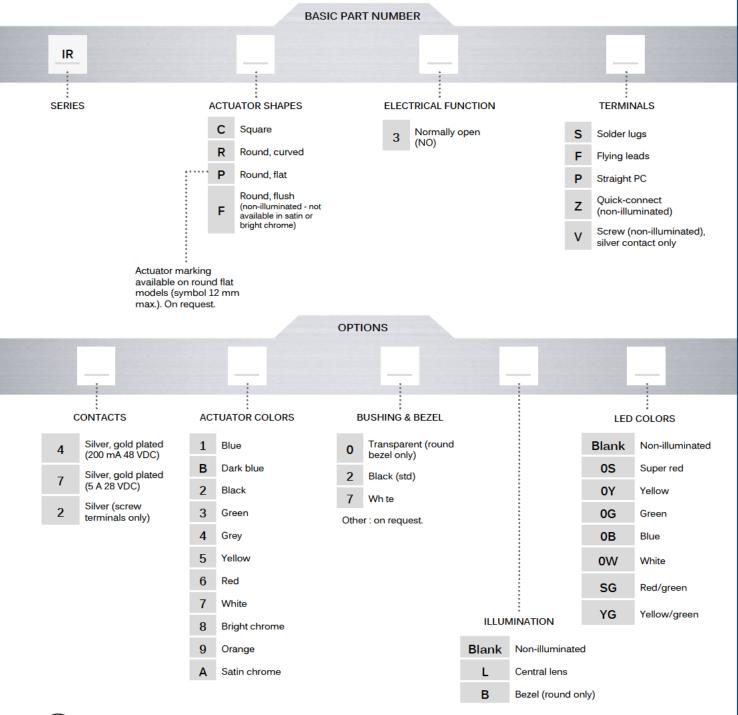


Function 3 (NO)

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# **(£3)**

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





## ABOUT THIS SERIES

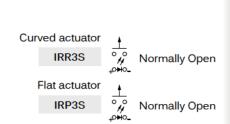
On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- (1) 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.
- (1) 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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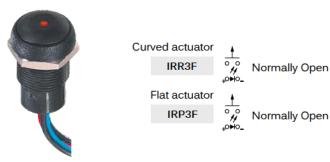
# ROUND - ILLUMINATED SOLDER LUG TERMINALS





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

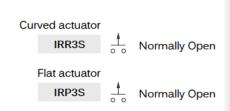
## ROUND - ILLUMINATED FLYING LEAD TERMINALS



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

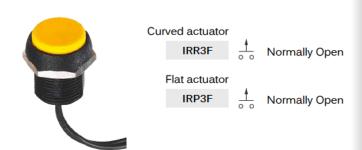
## ROUND - NON-LLUMINATED SOLDER LUG TERMINALS

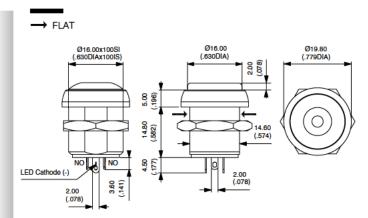


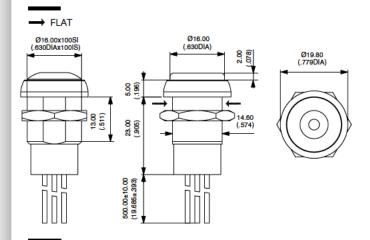


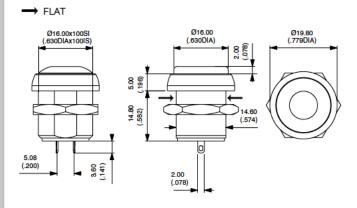
Also available with straight PC terminals: IR•3P and quick-connect terminals: IR•3Z.

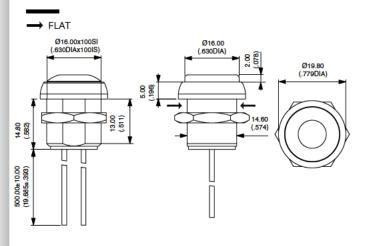
## ROUND - NON-LLUMINATED FLYING LEAD TERMINALS





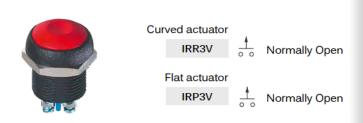




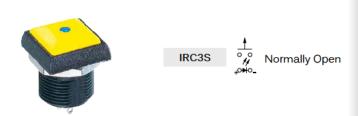


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## ROUND - NON-LLUMINATED SCREW TERMINALS



# 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

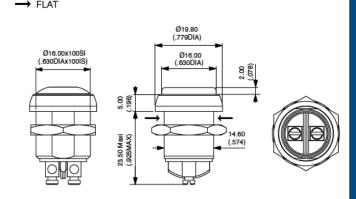


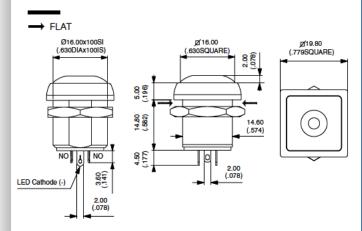
Wire colors : black : NO contact, red : LED anode (+), blue : LED cathode (-)

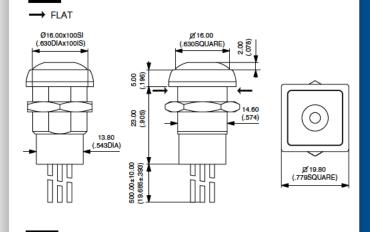
## SQUARE - NON-ILLUMINATED SOLDER LUG TERMINALS

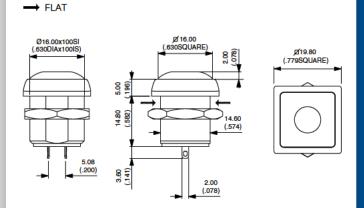


Also available with straight PC terminals: IRC3P and quick-connect terminals: IRC3Z.

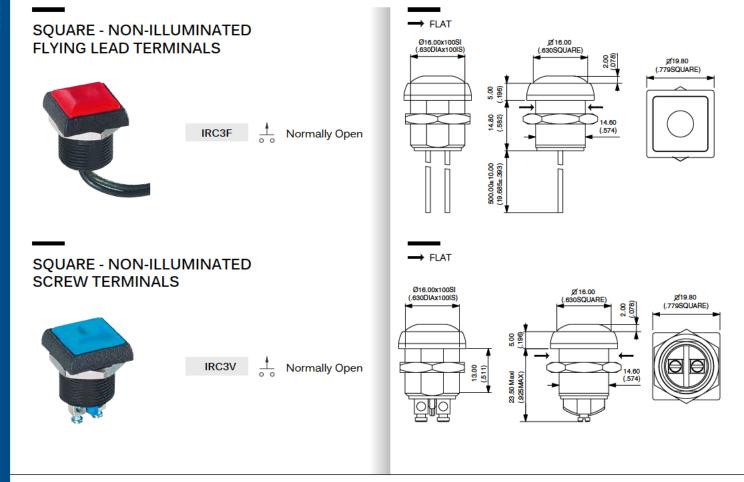








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# CONTACTS

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

BASIC P/N

## **ACTUATOR COLORS**

BASIC P/N 1 Blue В Dark blue 2 Black 3 Green 4 Grey 5

- 6 Red 7 White 8
- Bright chrome

Yellow

9 Orange Satin chrome

Sealed pushbutton switches ullet bushing  $\emptyset$  16 mm ullet momentary ullet standard version

BUSHING AND BEZEL				
BASIC	P/N			
2 7 0	Black (standard) White Transparent (round bezel only)			
ILLUMINATION				
BASIC	P/N			
L B	Central lens Bezel (round only)			
LED COLORS				
BASIC	P/N			
OS OY OG OB OW SG YG	Super red Yellow Green Blue White Red/green Yellow/green			