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



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 m Ω max.
- Insulation resistance : 1 $G\Omega$ min. at 500 VDC
- Dielectric strength: 1,500 Vrms





LED COMPONENT	SPECIFICATIONS
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		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
Green (L0G)	20 mA	2.1 V	2.3 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 mm²
- LED wire: AWG26, section 0.12 mm2
- Lens: polycarbonate
- Terminal seal: epoxy



TERMINALS

ILLUMINATED MODELS

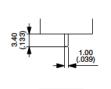


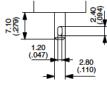


Solder lug S

Straight P

NON-ILLUMINATED MODELS





NON-ILLUMINATED MODELS

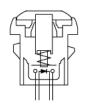
Straight P





ELECTRICAL FUNCTIONS

ILLUMINATED MODELS



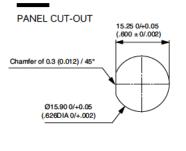


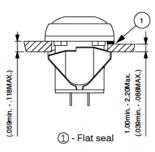
Function 3 (NO)

Function 3 (NO)

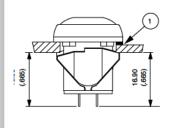


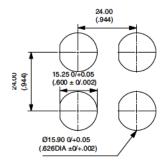
MOUNTING





BACK OF PANEL SPACE REQUIREMENT - MATRIX MOUNTING

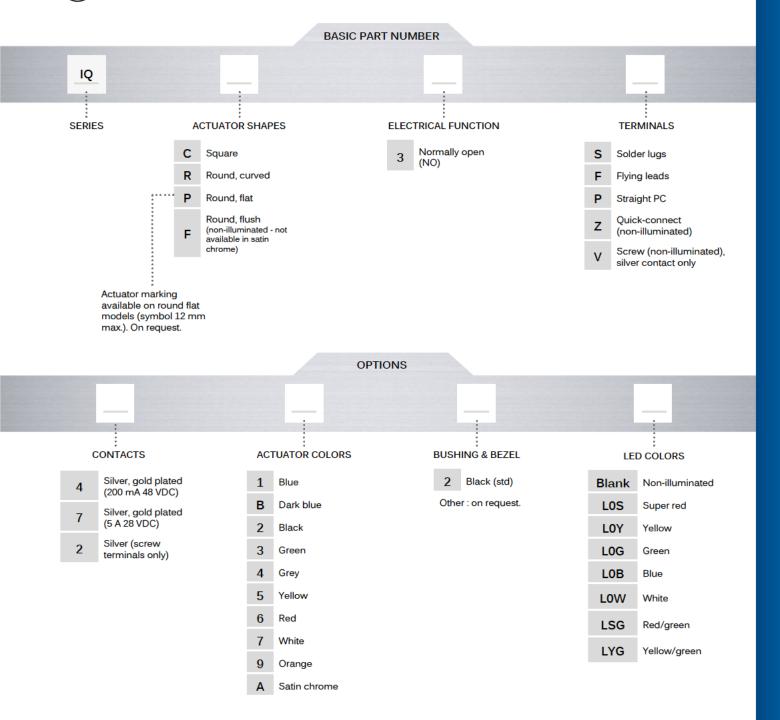




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(£3)

BUILD YOUR PART NUMBER



(4)

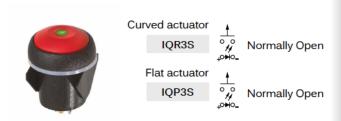
ABOUT THIS SERIES

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

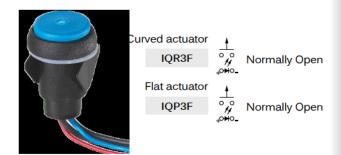
Sealed pushbutton switches \bullet bushing \emptyset 16 mm \bullet snap-in mounting \bullet momentary

ROUND - ILLUMINATED SOLDER LUG TERMINALS



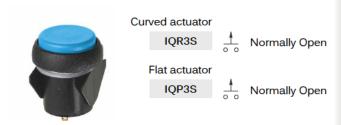
Also available with straight PC terminals: IQ+3P4. LED color is indicated by the bottom of the switch.

ROUND - ILLUMINATED FLYING LEAD TERMINALS



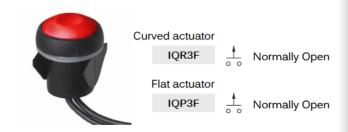
Wire colors: black: NO contact, red: LED anode (+), blue: LED cathode (-)

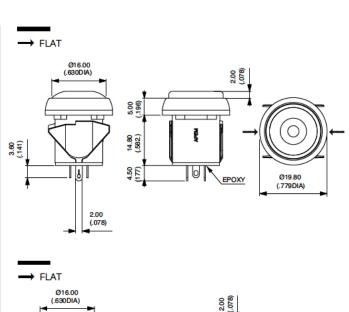
ROUND - NON-ILLUMINATED SOLDER LUG TERMINALS

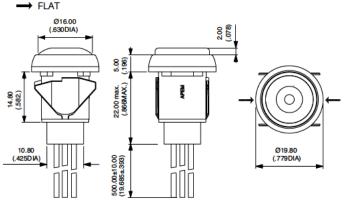


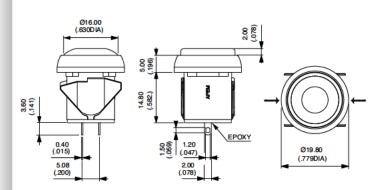
Also available with straight PC terminals: IQ•3P4 and quick-connect terminals: IQ•3Z4.

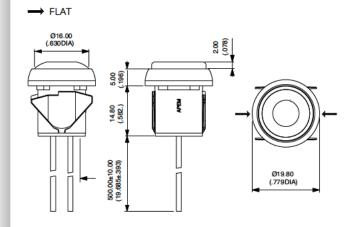
ROUND - NON-ILLUMINATED FLYING LEAD TERMINALS





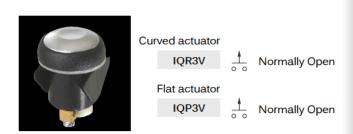




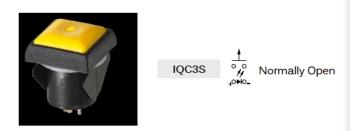


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ROUND - NON-ILLUMINATED SCREW TERMINALS



SQUARE - ILLUMINATED SOLDER LUG TERMINALS



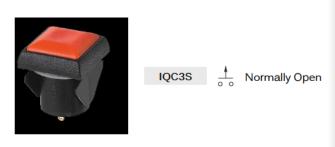
Also available with straight PC terminals: IQC3P. LED color is indicated by the bottom of the switch.

SQUARE - ILLUMINATED FLYING LEAD TERMINALS

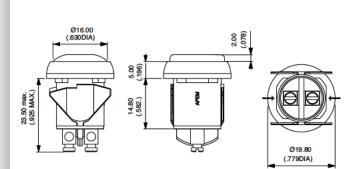


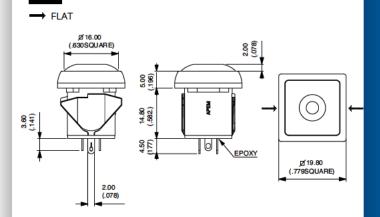
Wire colors: black: NO contact, red: LED anode (+), blue: LED cathode (-)

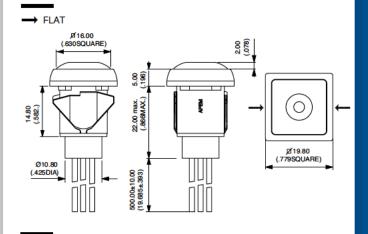
SQUARE - NON-ILLUMINATED SOLDER LUG TERMINALS

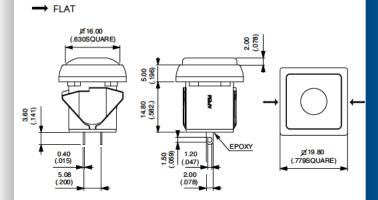


Also available with straight PC terminals: IQC3P or quick-connect terminals: IQC3Z.

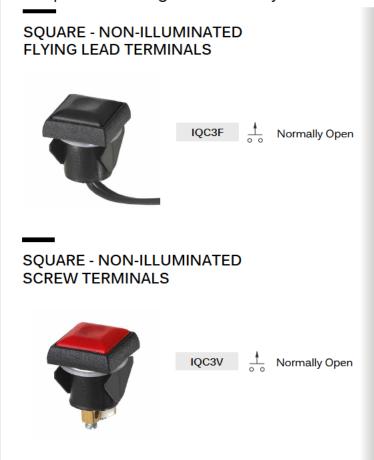


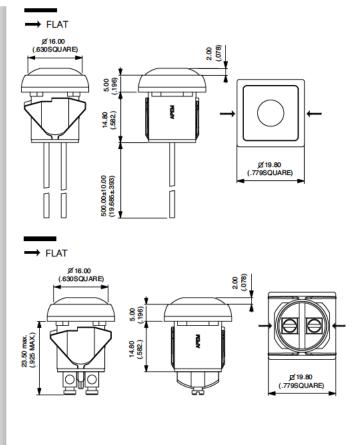






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CONTACT MATERIALS

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

BASIC P/N

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

ACTUATOR COLORS

BASIC P/N

1 Blue

Dark blue

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

В

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BUSHING AND BEZEL BASIC P/N 2 Black (standard) LED COLORS BASIC P/N Blank Non-illuminated L0S Super Red Yellow L0Y L0G Green L0B Blue L0W White LSG Red/green LYG Yellow/green