SW.RMOM.1801

IR series

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 m Ω max.
- Insulation resistance : 1 $\text{G}\Omega$ 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

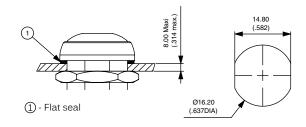
- Case: thermoplastic UL94-V0
- Actuator : polyamide 6/6
- Bushing/bezel : polyamide 6/6
- Contacts: 4 and 7: silver, gold plated
 - 2: silver (screw terminals)
- Multi-wire lead AWG20, section 0.6 mm2
- LED wire: AWG26, section 0.12 mm2
- Lens: polycarbonate
- Terminal seal : epoxy

 $\ensuremath{\mathsf{APEM}}$ products may be recycled at end-of-life for the re-claiming of valuable metal components.

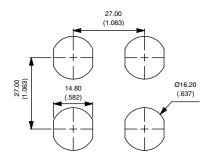


MOUNTING

PANEL CUT-OUT



MATRIX MOUNTING



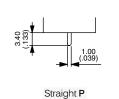


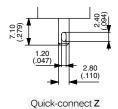
TERMINALS

ILLUMINATED MODELS



NON-ILLUMINATED MODELS



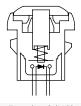


NON-ILLUMINATED MODELS



ELECTRICAL FUNCTIONS

ILLUMINATED MODELS





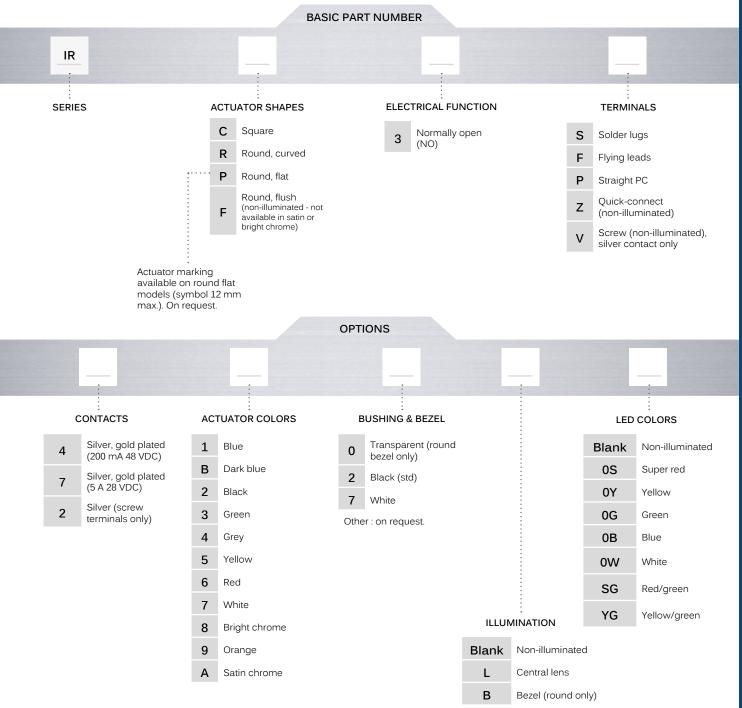
Function 3 (NO)

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(£3)

BUILD YOUR PART NUMBER





ABOUT THIS SERIES

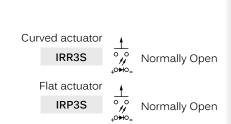
On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- 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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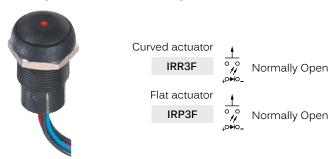
ROUND - ILLUMINATED SOLDER LUG TERMINALS





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

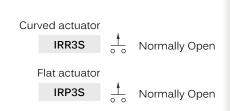
ROUND - ILLUMINATED FLYING LEAD TERMINALS



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

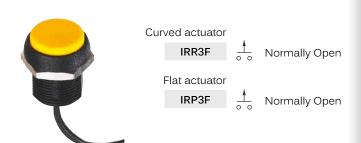
ROUND - NON-LLUMINATED SOLDER LUG TERMINALS

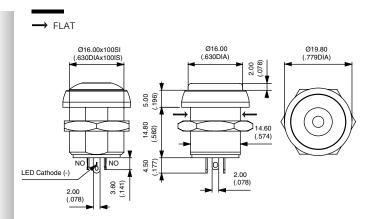


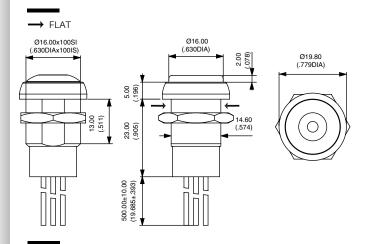


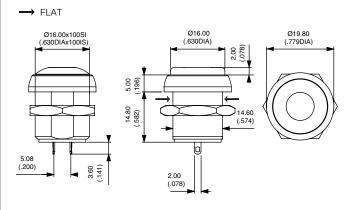
Also available with straight PC terminals: IR•3P and quick-connect terminals: IR•3Z.

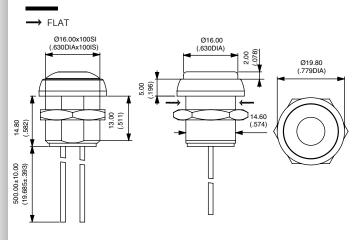
ROUND - NON-LLUMINATED FLYING LEAD TERMINALS





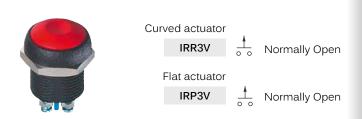






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ROUND - NON-LLUMINATED SCREW TERMINALS



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

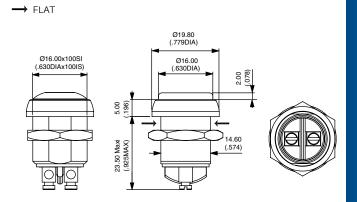


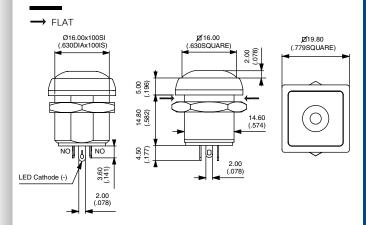
 $\textbf{Wire colors}: \texttt{black}: \texttt{NO} \ \texttt{contact}, \texttt{red}: \texttt{LED} \ \texttt{anode} \ \textbf{(+)}, \texttt{blue}: \texttt{LED} \ \texttt{cathode} \ \textbf{(-)}$

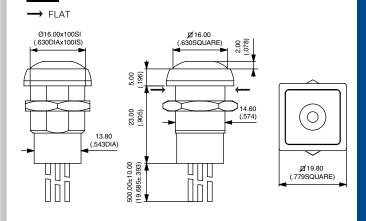
SQUARE - NON-ILLUMINATED SOLDER LUG TERMINALS

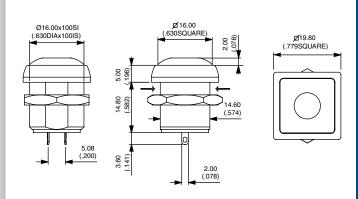


Also available with straight PC terminals: IRC3P and quick-connect terminals: IRC3Z.



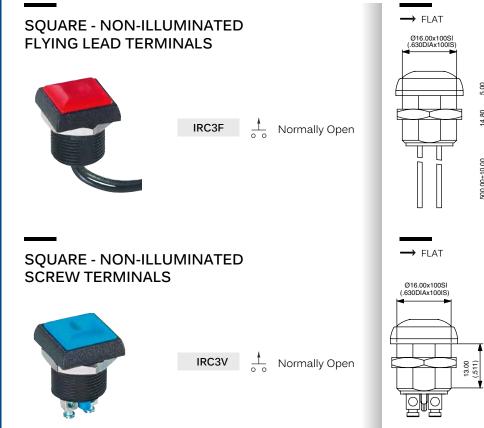


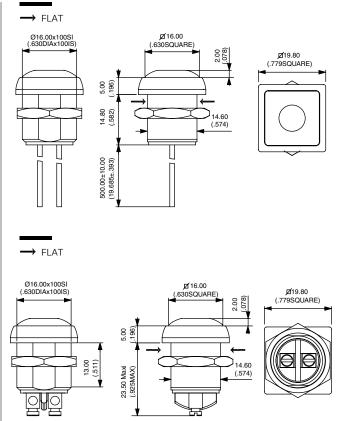




→ FLAT

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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			
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			
0S 0Y 0G 0B 0W SG YG	Super red Yellow Green Blue White Red/green Yellow/green			

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Click to view similar products for Pushbutton Switches category:

Click to view products by Apem manufacturer:

Other Similar products are found below:

LW1L-M1C10V-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M7E-HRN2 67021K512 67081K512X 701PB580 719-5504-000

MDPSSGLFS 810KSV30B FLT 2U EE 01A MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8646AB6X718UL

8646ABUL FSDWH 9001KXRK 9001T8BK 9533CD4+U574+U4922 1203MRA A22EM01S A595 1202A6 12037A2ULCSA 1203A2UL

ABD122N-B 1211390004 ABN111-Y ABN400-R 1211500044 1211580012 1212MRA 1232A6NF RA3CSH6A 1241.1183.7047

1241.2511 1241.3428 1223A2ULCSA 1223MRA 1232AX2119 1241.1183.8000 1241.1183.8029 1241.2506 1241.2606 12MA6

1301940184 RELBARF6X10(PLASTIC)