IR series

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

DISTINCTIVE FEATURES

Microswitch technology up to 5 A

Tactile feedback

Sealed to IP67

Flat round actuator for optional marking

ENVIRONMENTAL SPECIFICATIONS

• Front panel sealing : IP67 according to IEC 60529

• Salt spray : IEC 512-6, test 11f

• Operating temperature : -20 °C to +85 °C (-4 °F to +185 °F)

GENERAL SPECIFICATIONS

• Panel thickness : 3 mm (.118) max.

• Total travel : 1.6 mm (.062) ± 0.3 mm

• Typical operating force : 4 N ± 2 N

• Mechanical life : 1,000,000 cycles

• Torque : 0.8 Nm max. applied to nut

• Soldering : 320 °C (608 °F) max. for 3 sec.

ELECTRICAL SPECIFICATIONS

• Max. current/voltage rating with resistive load (microswitch) :
  5 A 250 VAC, 50,000 cycles (function 7)
  5 A 250 VAC, 25,000 cycles (function 8)

• Initial contact resistance : 100 mΩ max.

• Insulation resistance : 1 GΩ min. at 500 VDC

• Dielectric strength : 750 Vrms between terminals
  2,000 Vrms between terminals and frame

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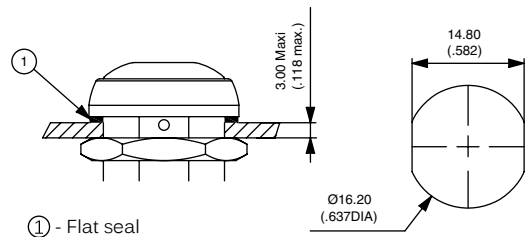momentary • microswitch version

MATERIALS

- Case : thermoplastic UL94-V0
- Actuator : polyamide 6/6
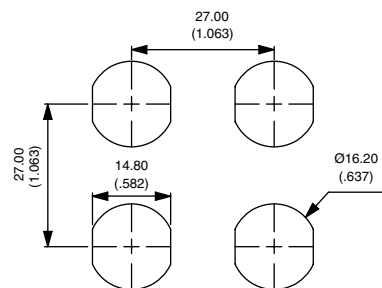- Bushing/bezel : polyamide 6/6
- Contacts : silver

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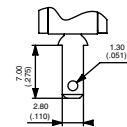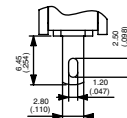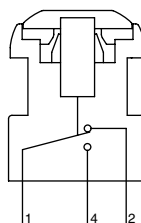
MOUNTING

PANEL CUT-OUT

① - Flat seal

3.00 Maxi
(.118 max.)

14.80
(.582)

Ø16.20
(.637DIA)

MATRIX MOUNTING

27.00
(1.063)

27.00
(1.063)

14.80
(.582)

Ø16.20
(.637)

TERMINALS

1.30
(.051)

7.00
(.275)

2.80
(.110)

Quick-connect
Function **7 (NC+NO))**

2.50
(.098)

6.45
(.254)

1.20
(.047)

2.80
(.110)

Solder lug
Function **8 (NC/NO))**

ELECTRICAL FUNCTIONS
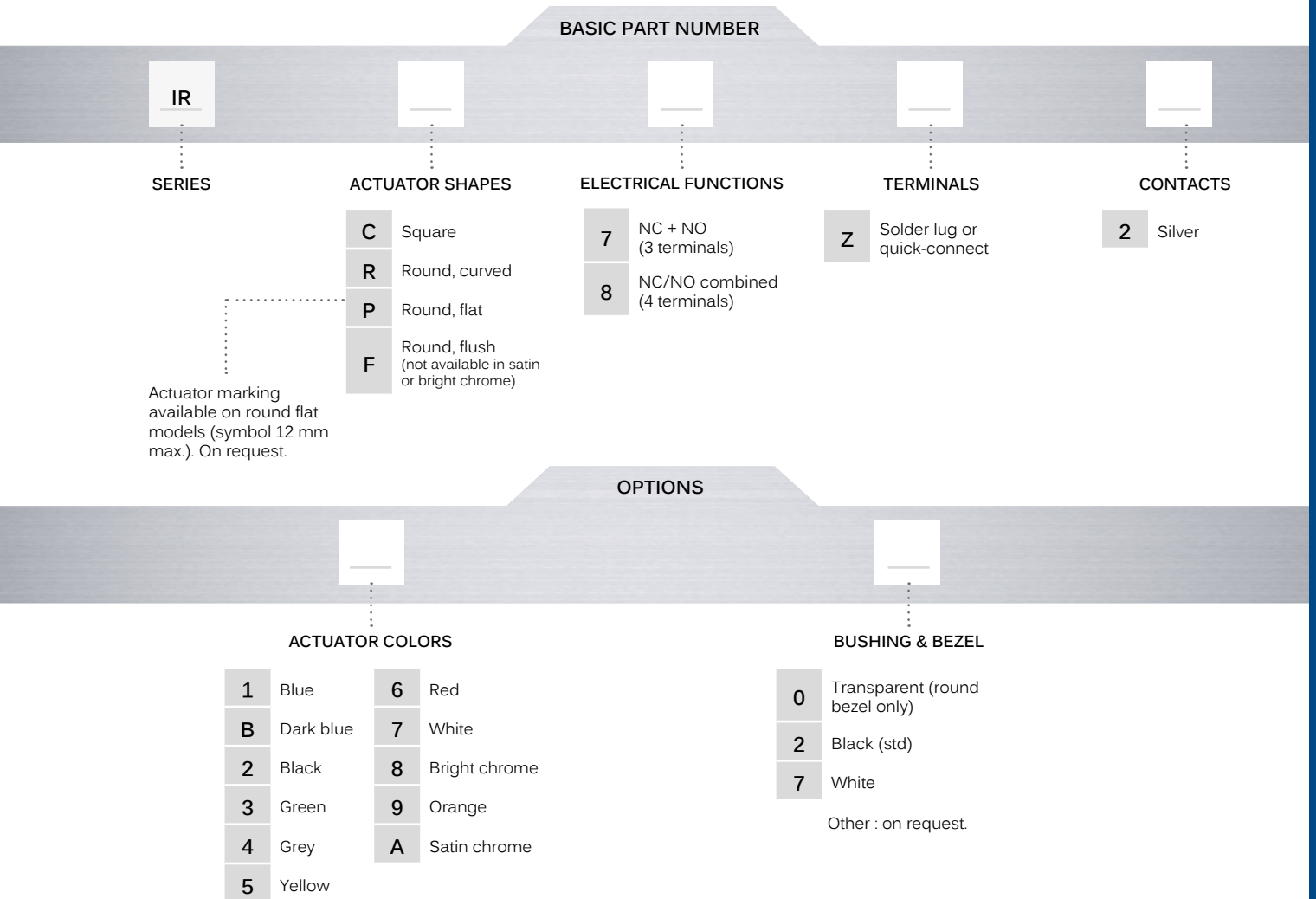
1   4   2

Function **7 (NC+NO))**

3   1   2   4
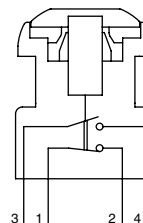
Function **8 (NC/NO))**

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

SERIES	ACTUATOR SHAPES	ELECTRICAL FUNCTIONS	TERMINALS	CONTACTS
IR	**C** Square	**7** NC + NO (3 terminals)	**Z** Solder lug or quick-connect	**2** Silver
	R Round, curved	**8** NC/NO combined (4 terminals)		
	P Round, flat			
	F Round, flush (not available in satin or bright chrome)			

Actuator marking available on round flat models (symbol 12 mm max.). On request.

OPTIONS

ACTUATOR COLORS

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

BUSHING & BEZEL

0	Transparent (round bezel only)
2	Black (std)
7	White

Other : on request.

The IR series for high currents is based on a microswitch. Please note that this microswitch is supplied separately.

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 Boots" 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 - QUICK-CONNECT TERMINALS - NC+NO - 3 TERMINALS

Curved actuator
IRR7Z2 NC+NO

Flat actuator
IRP7Z2 NC+NO

→ FLAT

## ROUND - SOLDER LUG TERMINALS - NC/NO - 4 TERMINALS

Curved actuator
IRR8Z2 NC/NO combined

Flat actuator
**IRP8Z2** NC/NO combined

→ FLAT

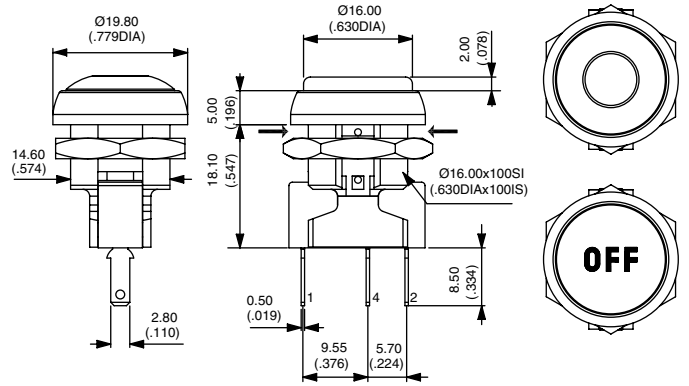## SQUARE - QUICK-CONNECT TERMINALS - NC+NO - 3 TERMINALS

IRC7Z2 NC+NO

→ FLAT

SQUARE - SOLDER LUG TERMINALS - NC/NO - 4 TERMINALS

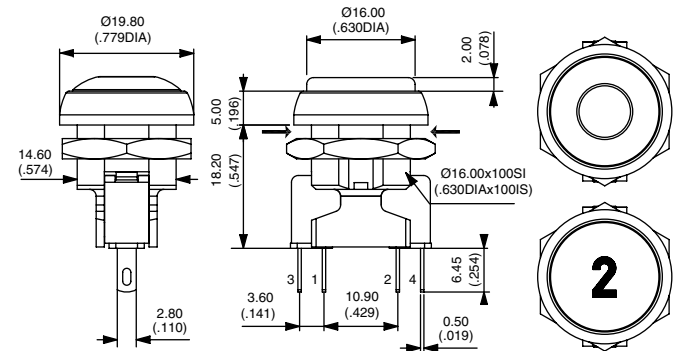**IRC8Z2** NC+NO
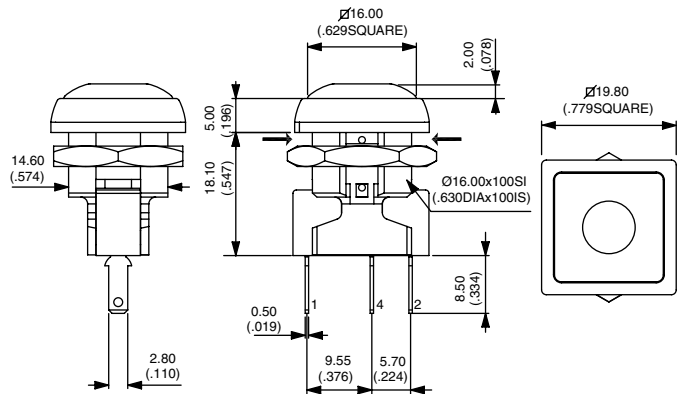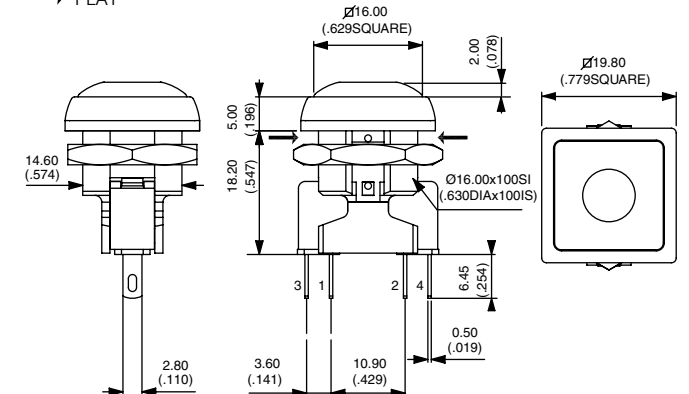
→ FLAT

Terminals should be used as solder lugs only.

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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*

* Non available with Round, flush actuator shape (**F**)

BUSHING AND BEZEL

BASIC P/N

0	Transparent (round bezel only)
2	Black (standard)
7	White

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8940K2012 LW1L-M1C10V-A LW1L-M1C70-A LW2L-A1C20M-GD LW2L-M1C20M-A 60324L M22-D-R-GB0/K11 M7E-HRN2 67021K512 67081K512X 701PB580 7190K101 7199K101 810K12910 810KSV30B MML21EA2ADK MML21KA3ABK MML23KA3AC05K-001 MML23KW3AA01W 8418K2 8442K3 8450K1 860K11911T01A 861901 861K11911T01A07 861K13810T00A14 861K13911 8646AB6X718UL 8646ABUL 9001KXRK 907AYY100 PMHD155A1 95-313.000 9533CD4+U574+U4922 95-414.000 99-450.837 99-453.837 PV3H2B0NN-341 1203MRA A22NZBGANGA A22NZBMMNGA A22NZBNANGA A22NZMPATRA A2PMA1X03EC56 A3A-5123-02 A3A-7140 A3A-7310 A3A-7340 A3U-TMW-A2C-5M A595