IA series

Low profile pushbutton switches for harsh environments - bushing Ø 16 mm - momentary

Distinctive features - Specifications - Overview

❑ **Resistant to frost, sand and hydrocarbons**

❑ **Tactile feedback**

❑ **Front panel sealed to IP67**

ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing (see drawing opposite) : IP67
- Salt spray : IEC 512-6, test 11f
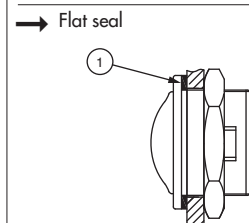- Operating temperature : -20°C to +65°C

ELECTRICAL AND GENERAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 2A 24VDC
- Initial contact resistance : 100mΩ max.
- Insulation resistance : 100 MΩ min. at 500VDC
- Dielectric strength : 500 Vrms
- Electrical life at full load : 1.000.000 cycles

- Panel thickness : 7 mm (.276) max.
- Total travel : 1,5 mm (.059) +/- 0,3 mm
- Typical operating force : 7N +/- 2N
- Mechanical life : 1.000.000 cycles
- **Torque : 0,5 to 1Nm max. applied to nut**

MATERIALS

- Case/bushing : thermoplastic
- Actuator : polyurethane
- Contacts : silver, gold plated
- Multi-wire lead AWG20, section 0,6 mm².
- Terminal seal : epoxy

PANEL MOUNTING

→ Flat seal

①

IA						
SERIES	**Actuator shape**	**Electrical function**	**Terminals**	**Contacts**	**Acuator colours**	**Case colour**
	R round	3 Normally open (NO)	F Flying leads	1 Silver, gold plated	1 Blue	00 Black
		5 NC/NO combined			2 Black	
					3 Green	
					5 Yellow	
					6 Red	
					7/1 White	
					9 Orange	

Dimensions : First dimensions are in mm while inches are shown as bracketed numbers.

A sealing boot is available to protect the switches against frost and sand. See end of this catalogue.
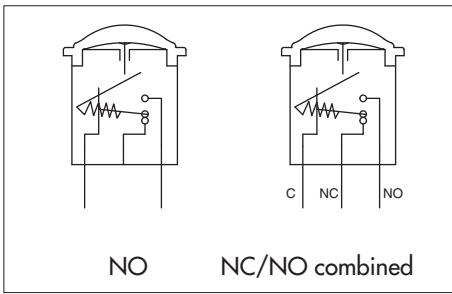
Mounting accessories : Standard hardware supplied : 1 hex nut 19 mm (.748) across flats and 1 flat seal. Knurled nut U3327 available on request.
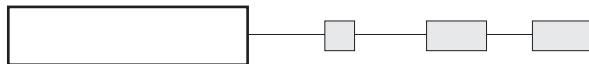
Packaging unit : 25 pieces

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NO   NC/NO combined

• Panel cut-out Ø 16,2 mm (.657)
• Min. pitch for matrix mounting :
  - with standard hex nut : 27 x 27 mm (1.062 x 1.062)
  - with knurled nut U3327: 20 x 20 mm (.787x.787)
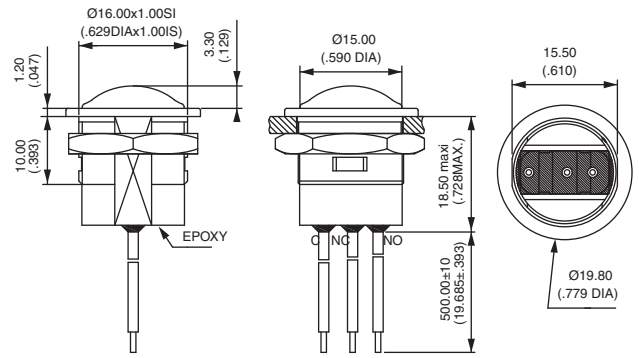
MODEL STRUCTURE

NO model has 2 terminals only.
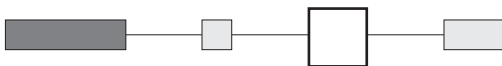
Models

Normally open (NO)
IAR3F

NC/NO combined
IAR5F

Ø16.00x1.00SI
(.629DIAx1.00IS)
3.30 (.129)
1.20 (.047)
10.00 (.393)
EPOXY

Ø15.00 (.590 DIA)
C NC NO
18.50 maxi (.728MAX.)
500.00±10 (19.685±.393)

15.50 (.610)
Ø19.80 (.779 DIA)

Wire colours (NC/NO) : black = common, brown = NC, blue = NO

CONTACT MATERIAL

1   Silver, gold plated

ACTUATOR COLOUR

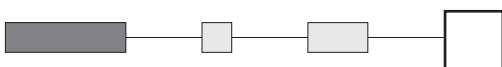**1** : blue - **2** : black - **3** : green - **5** : yellow - **6** : red - **7/1** : white - **9** : orange

CASE COLOUR

00 : black