IZ series

Rear mounted sealed pushbutton switches • bushing Ø 16 mm • latching

DISTINCTIVE FEATURES

Rear mounting for easier installation
Latching action models
Sealed to IP67
Illuminated or non-illuminated
Flat 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 : 100 mA 24 VDC - 200,000 cycles
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500 VDC
- Dielectric strength : 1.500 Vrms 50 Hz between terminals

LED COMPONENT SPECIFICATIONS

LED color	Forward current	Typ. forward voltage	Max. forward voltage
Super red (L0S)	20 mA	1.95 V	1.95 V
Yellow (L0Y)	20 mA	2 V	2.05 V
Green (L0G)	20 mA	2.1 V	2.5 V
Blue (L0B)	20 mA	3.2 V	4 V

A resistor must be series-connected by the user.

$$\text{Resistor value} = \frac{\text{supply voltage - LED forward voltage}}{\text{LED forward current}}$$

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 : 3 mm (.118) max.
- Total travel : 2.5 mm (.098) ± 0.3 mm
- Typical operating force : 5 N ± 2 N
- Low level or mechanical life : 200,000 cycles
- Torque : 0.7 Nm max. applied to nut
- Soldering : 320 °C (662 °F) max. for 3 sec.

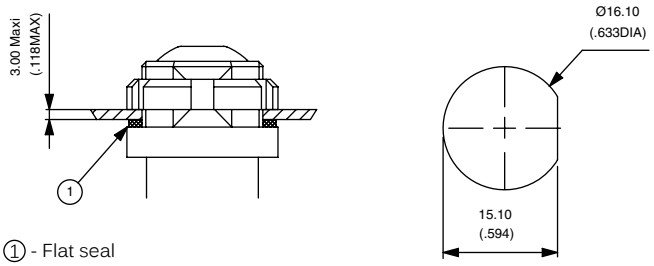
MATERIALS

- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : polyamide
- Contacts : silver, gold plated
- Multi-wire leads AWG20, section 0.6 mm^2
- LED wire : AWG26, section 0.12 mm^2
- Lens : polycarbonate
- Terminal seal : epoxy

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

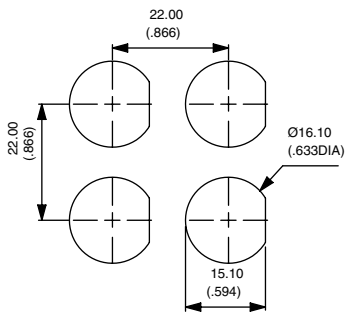
MOUNTING

PANEL CUT-OUT

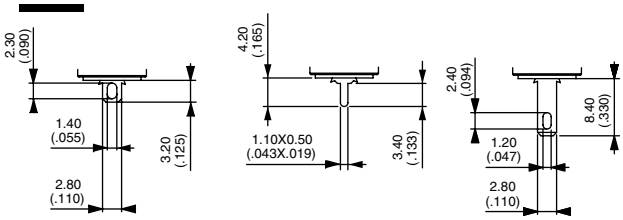


① - Flat seal

MATRIX MOUNTING



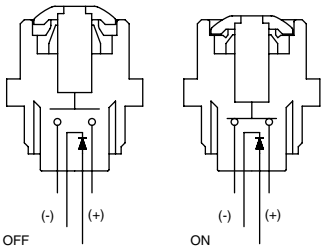
TERMINALS



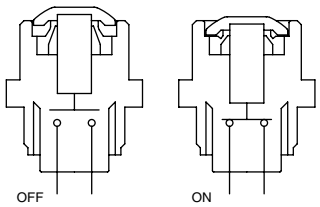
Solder lug **S** | Straight **P** | Quick-connect **Z**

ELECTRICAL FUNCTIONS

ILLUMINATED MODELS



NON-ILLUMINATED MODELS



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BUILD YOUR PART NUMBER

BASIC PART NUMBER

IZ

SERIES

MODELS

P	Thermoplastic

ACTUATOR SHAPES

R	Round, curved
P	Round, flat

Actuator marking available on round flat models (symbol 10 mm max.). On request.

ELECTRICAL FUNCTION

1	OFF - ON

TERMINALS

S	Solder lugs
F	Flying leads
P	Straight PC
Z	Quick-connect

CONTACTS

4	Silver, gold plated

OPTIONS

ACTUATOR COLORS

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

BUSHING & BEZEL

2	Black (standard)

Other : on request.

LED COLORS

Blank	Non-illuminated
L0S	Super red
L0Y	Yellow
L0G	Green
L0B	Blue

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. See "Sealing Boots" section of website.

Mounting accessories : Standard hardware supplied : 1 castellated black plastic nut U4249 and 1 silicone flat seal.
Wrench tool available under P/N U4028. Order separately.

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ILLUMINATED - SOLDER LUG TERMINALS

Curved actuator

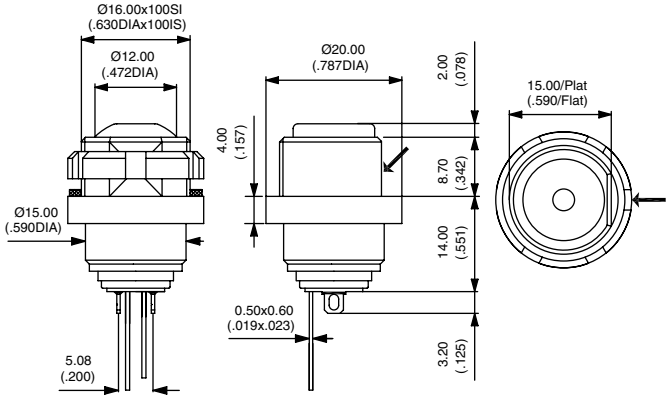
IZPR1S4 OFF - ON

Flat actuator

IZPP1S4 OFF - ON

Also available with straight PC terminals : **IZP•1P4**
and quick-connect terminals : **IZP•1Z4.**

→ FLAT



ILLUMINATED - FLYING LEAD TERMINALS

Curved actuator

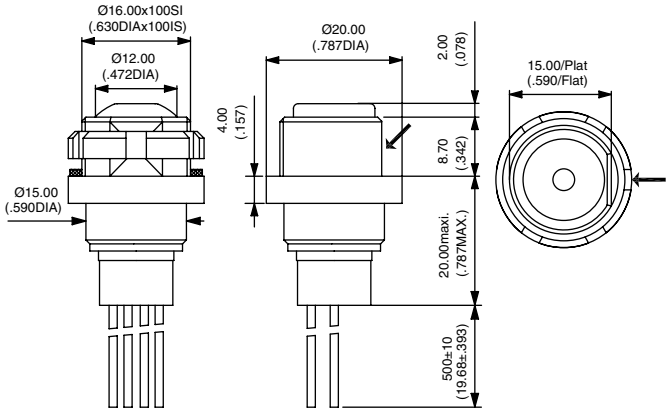
IZPR1F4 OFF - ON

Flat actuator

IZPP1F4 OFF - ON

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

→ FLAT



NON- ILLUMINATED - SOLDER LUG TERMINALS

Curved actuator

IZPR1S4 OFF - ON

Flat actuator

IZPP1S4 OFF - ON

Also available with straight PC terminals : **IZP•1P4**
and quick-connect terminals : **IZP•1Z4.**

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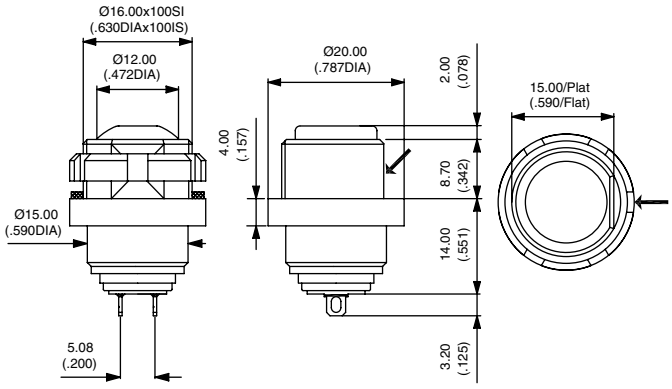


NON-ILLUMINATED - FLYING LEAD TERMINALS

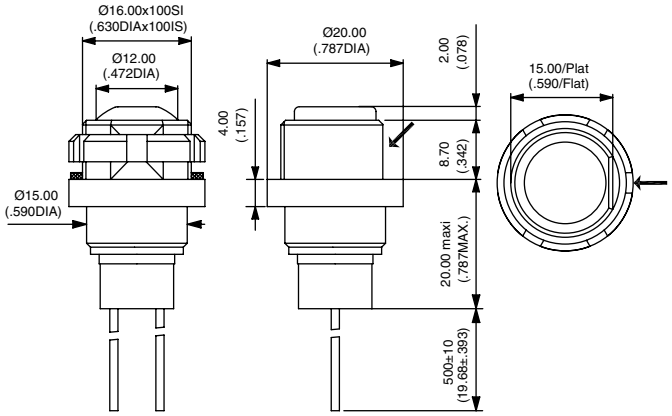
Curved actuator

IZPR1F4 OFF - ON

Flat actuator

IZPP1F4 OFF - ON

→ FLAT



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ACTUATOR COLORS

1	Blue
B	Dark blue
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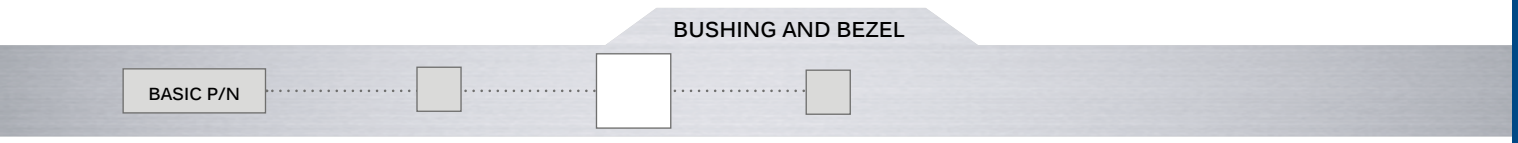
9	Orange
A	Satin chrome

BUSHING AND BEZEL



B	Black (standard)

Other : on request.

LED COLORS

Blank	Non-illuminated
L0S	Super Red
L0Y	Yellow
L0G	Green
L0B	Blue