Rear mounted sealed pushbutton switches - bushing Ø 16 - metal - latching

Distinctive features and specifications



Rear mounting for easier installation
Latching action metal models
Fixed or variable panel thickness
Illuminated or non-illuminated
Flat actuator for optional marking
Sealed to IP67

ENVIRONMENTAL AND GENERAL SPECIFICATIONS

Degree of protection: IP67

Temperature range: -40°C to +85°C
Total travel: 2,5 mm (.098) Mechanical life: 200.000 cycles

ELECTRICAL SPECIFICATIONS

 Max. current/voltage rating with resistive load : 100mA 24VDC - 200.000 cycles

• Initial contact resistance : $100 \text{ m}\Omega$ max. • Insulation resistance : 1 $G\Omega$ min. at 500VDC • Dielectric strength: 1.500 Vrms between terminals

1.000 Vrms between terminals and frame

LED COMPONENT SPECIFICATIONS				
LED colour	Forward current	Typ. forward voltage	Max. forward voltage	
Super red (LOS)	20mA	1,95V	1,95V	
Yellow (LOY)	20mA	2V	2,05V	
Green (L0G)	20mA	3,2V	3,70V	
Blue (LOB)	20mA	3,2V	4V	

A resistor must be series-connected by the user. Resistor value = <u>supply voltage - LED forward voltage</u> LED forward current

On flying lead versions, the LED resistor can be integrated by APEM on request.

MATERIALS

- Case : thermpoplastic UL94-V0
- Plunger : polyamideBushing/bezel : brass, nickel plated
- Contacts : silver, gold plated
- Multi-wire lead AWG20, section 0,6 mm²
- LED wire: AWG26, section 0,12 mm²
- Lens : polycarbonate
- Terminal seal : epoxy

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Dimensions: First dimensions are im mm while inches are shown as bracketed numbers. **Tolerance**: The general tolerance for dimensions in this brochure is ± 0.3 (.012).

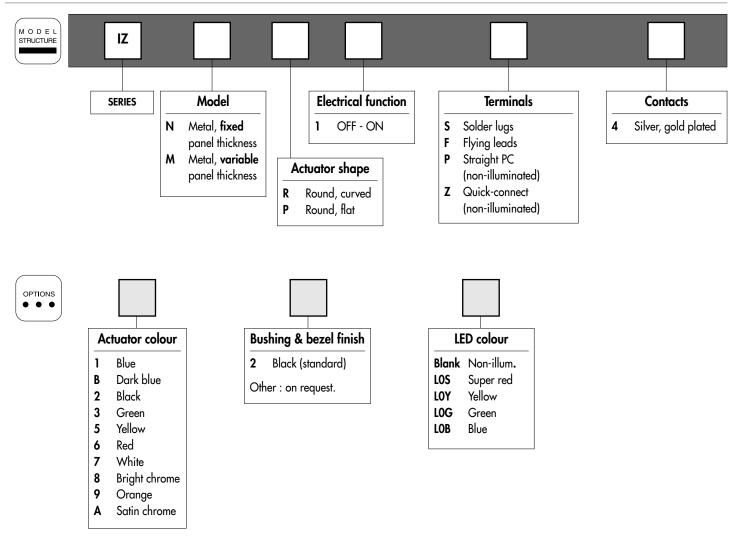
Overall dimension tolerance is ± 0.5 (.020).

Dimensions, specifications and data shown in this catalogue are subject to change without notice.



Rear mounted sealed pushbutton switches - bushing Ø 16 - metal - latching

Overview





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ABOUT THIS SERIES

On the following pages, you will find successively: model structure of switches and options in the same order as in above chart

Dimensions: first dimensions are in mm while inches are shown as bracketted numbers.



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:

- IZN: 1 castellated nickel plated brass nut U6911 + 1 O-ring

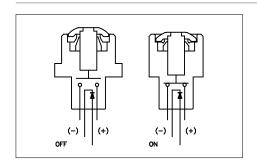
- IZM: 1 castellated nickel plated brass nut U6911 + 1 silicone flat seal + 1 hex nut 19 mm (.748) across flats U4116.



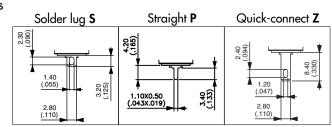
Packaging unit: 25 pieces for flying lead models - 40 pieces for other models

Rear mounted sealed pushbutton switches - bushing Ø 16 - metal - latching

Illuminated



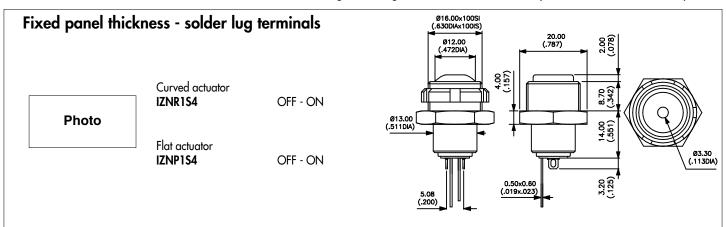
- Four LED colours
- Tin plated LED terminals
- Gold plated contacts

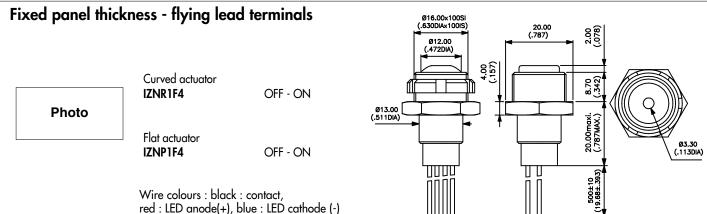


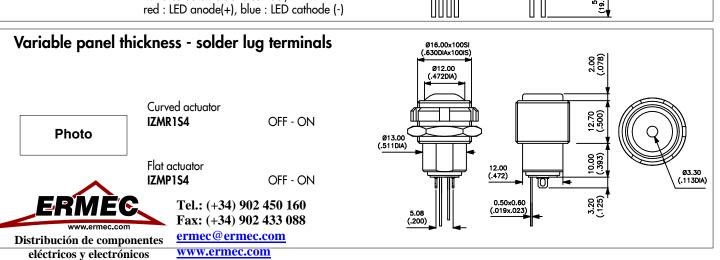




Plunger marking available on IZ•P models (symbol 10 mm max.). On request.



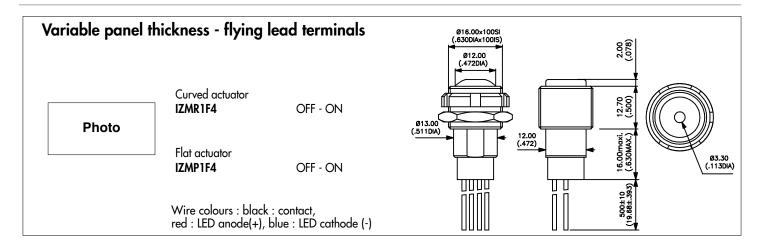




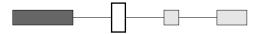


Rear mounted sealed pushbutton switches - bushing Ø 16 - metal - latching

Illuminated

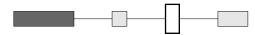


ACTUATOR COLOUR



 $\mathbf{1}$: blue - \mathbf{B} : dark blue - $\mathbf{2}$: black - $\mathbf{3}$: green - $\mathbf{5}$: yellow - $\mathbf{6}$: red - $\mathbf{7}$: white - $\mathbf{8}$: bright chrome - $\mathbf{9}$: orange \mathbf{A} : satin chrome

BUSHING AND BEZEL COLOUR



2 : black (standard) Other : on request.

LED COLOUR



LOS: super red - LOY: yellow - LOG: green

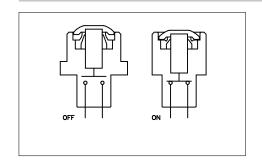
LOB: blue



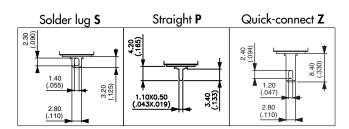
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Rear mounted sealed pushbutton switches - bushing Ø 16 - metal - latching

Non-illuminated



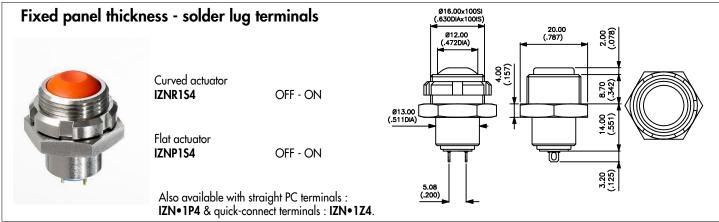
• Gold plated contacts

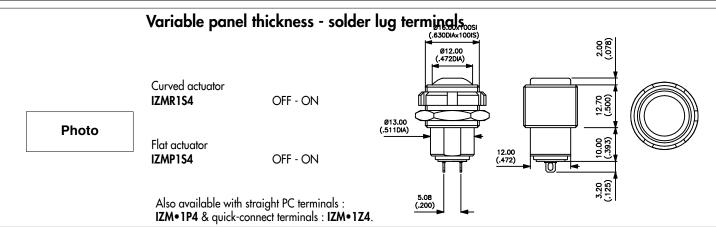


MODEL STRUCTURE



Plunger marking available on IZ•P models (symbol 10 mm max.). On request.





For FLYING LEAD versions, refer to previous pages (illuminated models). Non-illuminated have 2 wires only.

ACTUATOR COLOUR



1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange A: satin chrome





2: black (standard) Other: on request.



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Rear mounted sealed pushbutton switches - bushing Ø 16 - momentary

Distinctive features and specifications



Rear mounting for easier installation		Rear	mounting	for	easier	instal	latior
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■ Momentary models

Illuminated or non-illuminated

☐ Flat actuator for optional marking

☐ Sealed to IP67

☐ Screw version available up to 4A

ENVIRONMENTAL AND GENERAL SPECIFICATIONS

Degree of protection: IP67

 Temperature range : -40°C to +85°C Total travel: 1,7 mm (.067)Mechanical life: 1.000.000 cycles

ELECTRICAL SPECIFICATIONS

Max. current/voltage rating with resistive load :

- Gold plated silver contacts (code 4) : 200mA 48VDC - 200mA 250VAC

- Silver contacts (code 2) - screw terminals : 2A 250VAC - 4A 48VDC
• Electrical life at full load : 500.000 cycles Initial contact resistance: 100 mΩ max. Insulation resistance: 1 GΩ min. at 500VDC • Dielectric strength: 1.000 Vrms 50 Hz

LED COMPONENT SPECIFICATIONS				
LED colour	Forward current	Typ. forward voltage	Max. forward voltage	
Super red (LOS)	20mA	2,1V	2,3V	
Yellow (LOY)	20mA	2,1V	2,3V	
Green (L0G)	20mA	2,1V	2,3V	
Blue (LOB)	20mA	3,2V	3,8V	
White (LOW)	20mA	3,35V	4,25V	

A resistor must be series-connected by the user. Resistor value = <u>supply voltage - LED forward voltage</u> LED forward current

On flying lead versions, the LED resistor can be integrated by APEM on request.

MATERIALS

• Case : thermoplastic UL94-V0

Plunger : polyamideBushing/bezel : polyamide

Contacts:

4 : 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

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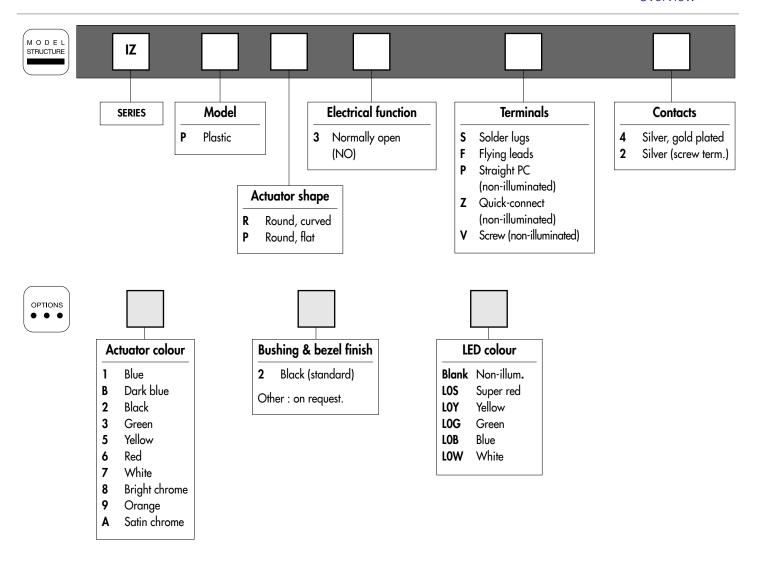
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Rear mounted sealed pushbutton switches - bushing Ø 16 - momentary

Overview



ABOUT THIS SERIES

On the following pages, you will find successively: model structure of switches and options in the same order as in above chart

Dimensions: first dimensions are in mm while inches are shown as bracketted numbers.



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 castellated black plastic nut U4249 and 1 silicone flat seal.



Packaging unit: 25 pieces for flying lead models - 40 pieces for other models

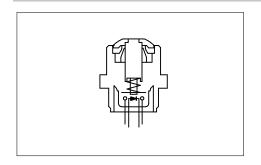


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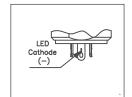


Rear mounted sealed pushbutton switches - bushing Ø 16 - momentary

Illuminated



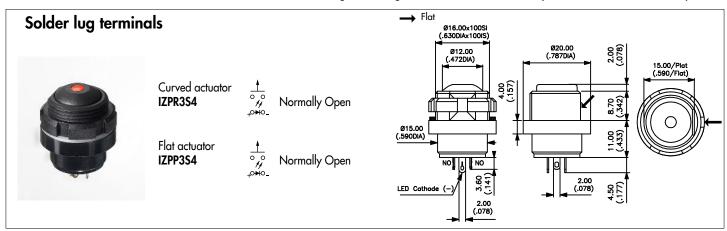
- Five LED colours
- Tin plated LED terminals
- Gold plated contacts

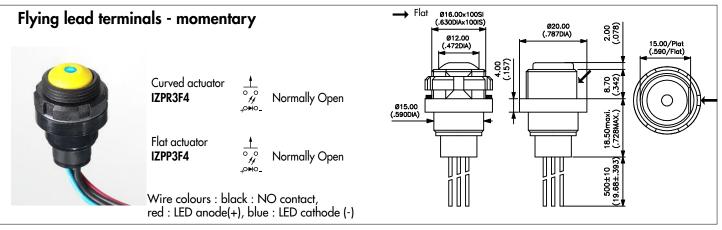




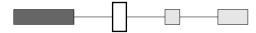


Plunger marking available on IZPP models (symbol 10 mm max.). On request.



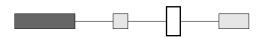


ACTUATOR COLOUR



1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange A : satin chrome

BUSHING AND BEZEL COLOUR



2 : black (standard) Other : on request.

LED COLOUR

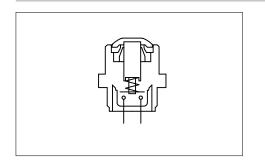


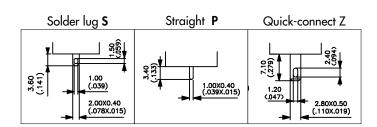
LOS: super red - LOY: yellow - LOG: green

LOB: blue - LOW: white

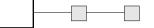
Rear mounted sealed pushbutton switches - bushing Ø 16 - momentary

Non-illuminated

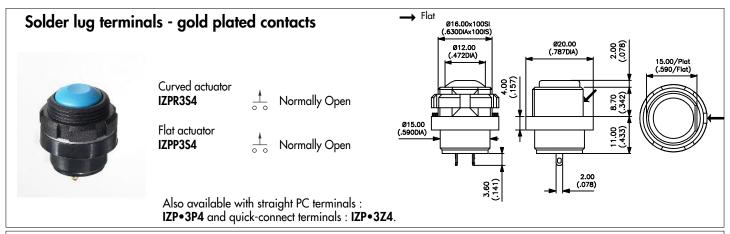




MODEL STRUCTURE



Plunger marking available on IZPP models (symbol 12 mm max.). On request.



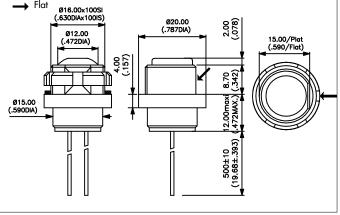
Sealed flying lead terminals - gold plated contacts



Curved actuator IZPR3F4

Flat actuator IZPP3F4





Screw terminals - silver contacts

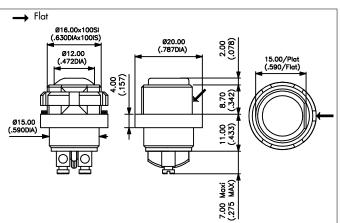


Curved actuator IZPR3V2

Flat actuator IZPP3V2

 $\frac{1}{2}$ Normally open

Normally open



Actuator colour and bushing/bezel colour: select the desired codes on previous page.



Rear mounted sealed pushbutton switches - bushing Ø 16 - latching action

Distinctive features and specifications





□ Latching action models

□ Illuminated or non-illuminated

☐ Flat actuator for optional marking

☐ Sealed to IP67

ENVIRONMENTAL AND GENERAL SPECIFICATIONS

Degree of protection: IP67

 Temperature range : -40°C to +85°C Total travel: 2,5 mm (.098)
Mechanical life: 200.000 cycles

ELECTRICAL SPECIFICATIONS

• Max. current/voltage rating with resistive load : 100mA 24VDC - 200.000 cycles

• Initial contact resistance : $100 \text{ m}\Omega$ max. Insulation resistance: 1 GΩ min. at 500VDC • Dielectric strength: 1.500 Vrms between terminals

LED COMPONENT SPECIFICATIONS				
LED colour	Forward current	Typ. forward voltage	Max. forward voltage	
Super red (LOS)	20mA	1,95V	1,95V	
Yellow (LOY)	20mA	2V	2,05V	
Green (L0G)	20mA	3,2V	3,70V	
Blue (LOB)	20mA	3,2V	4V	

A resistor must be series-connected by the user. Resistor value = <u>supply voltage - LED forward voltage</u> LED forward current

On flying lead versions, the LED resistor can be integrated by APEM on request.

MATERIALS

• Case: thermoplastic UL94-V0

Plunger : polyamideBushing/bezel : polyamide

Contacts: silver, gold platedMulti-wire lead AWG20, section 0,6 mm²

• LED wire: AWG26, section 0,12 mm²

• Lens : polycarbonate • Terminal seal : epoxy

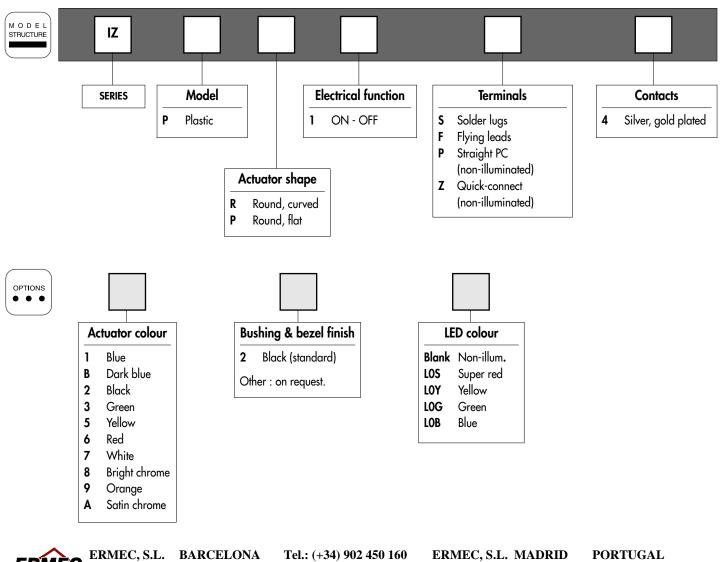
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Rear mounted sealed pushbutton switches - bushing \emptyset 16 - latching action

Distinctive features and specifications





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ABOUT THIS SERIES

On the following pages, you will find successively: model structure of switches and options in the same order as in above chart

Dimensions: first dimensions are in mm while inches are shown as bracketted numbers.



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 castellated black plastic nut U4249 and 1 silicone flat seal.



Packaging unit: 25 pieces for flying lead models - 40 pieces for other models



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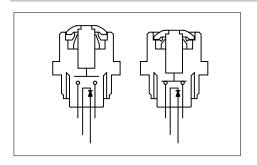


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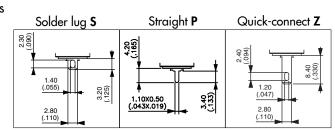
Preliminary

Rear mounted sealed pushbutton switches - bushing Ø 16 - latching action

Illuminated

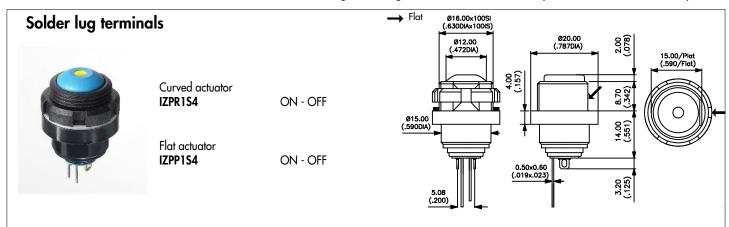


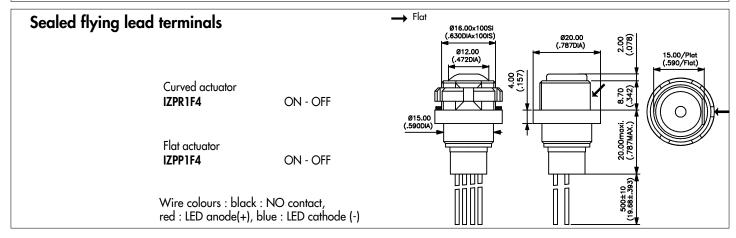
- Four LED colours
- Tin plated LED terminals
- Gold plated contacts



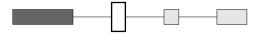


Plunger marking available on IZPP models (symbol 10 mm max.). On request.





ACTUATOR COLOUR



1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange A : satin chrome

BUSHING AND BEZEL COLOUR



2 : black (standard) Other : on request.

LED COLOUR

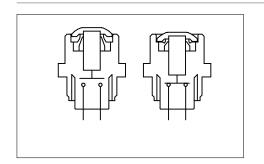


LOS: super red - LOY: yellow - LOG: green

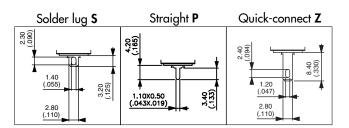
LOB : blue

Rear mounted sealed pushbutton switches - bushing Ø 16 - latching action

Non-illuminated



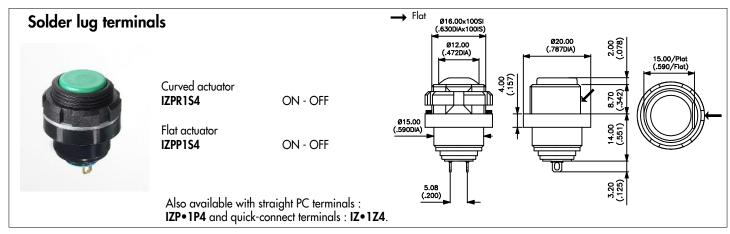
• Gold plated contacts

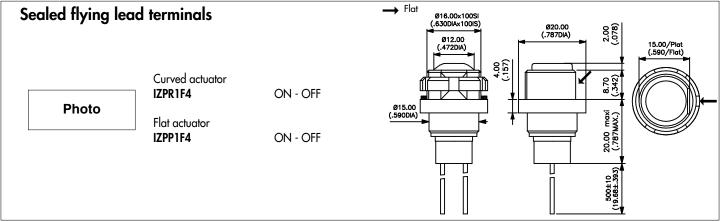






Plunger marking available on IZPP models (symbol 10 mm max.). On request.





ACTUATOR COLOUR



1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange A : satin chrome

BUSHING AND BEZEL COLOUR



2 : black (standard) Other : on request.



Distribución de componentes eléctricos y electrónicos

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