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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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

Distinctive features and specifications

IZ series



- 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 : $100 \text{ m}\Omega \text{ max}$.
- Insulation resistance : 1 G Ω 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

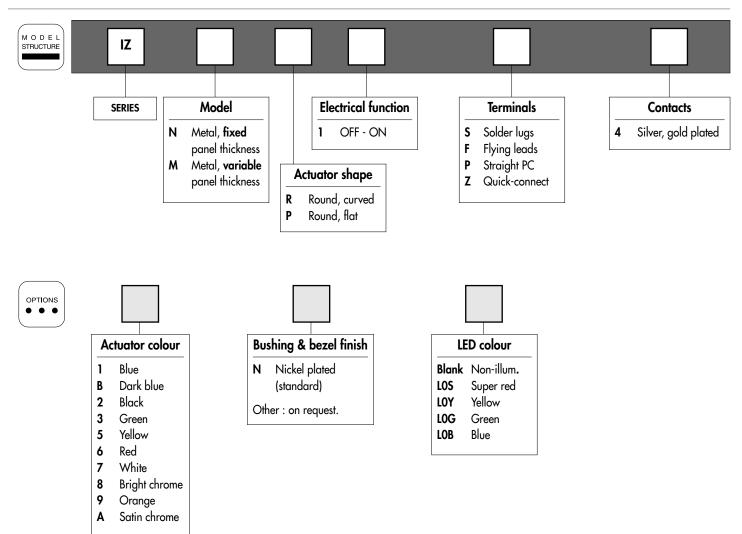
Dimensions : First dimensions are im mm while inches are shown as bracketed numbers. **Tolerance** : The general tolerance for dimensions in this brochure is ± 0.3 (.012). Overall dimension tolerance is $\pm 0,5$ (.020).

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

Preliminary

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

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 :



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

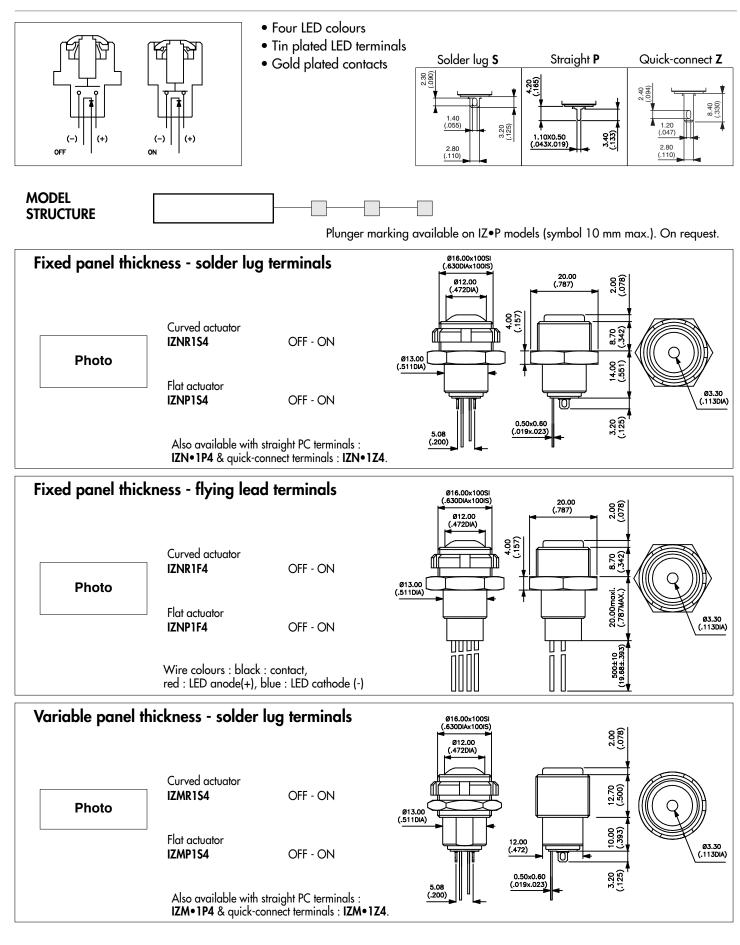
- IZM : 1 castellated nickel plated brass nut U6911 + 1 silicone flat seal + 1 hex nut 19 mm (.748) across flats U4116.

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

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

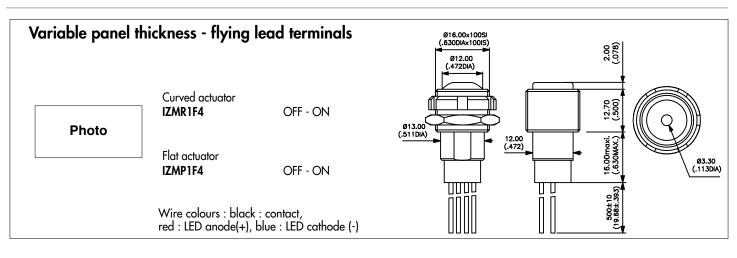
Illuminated

IZ series

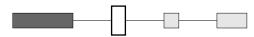


Rear mounted sealed pushbutton switches - bushing Ø 16 - metal - latching

Illuminated

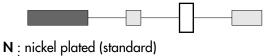


ACTUATOR COLOUR



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



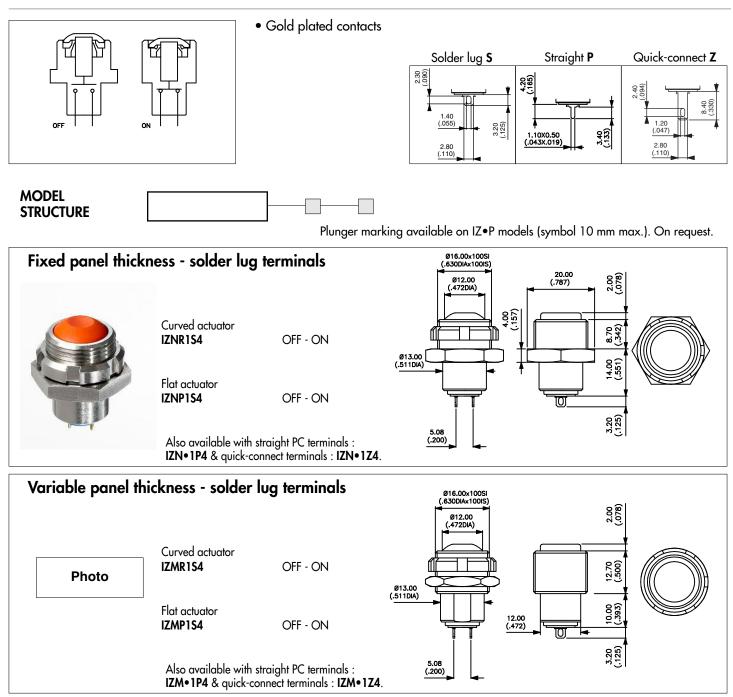
Other : on request.

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

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

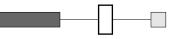
Non-illuminated

IZ series



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

BUSHING AND BEZEL COLOUR

N : nickel plated (standard) Other : on request.

Rear mounted sealed pushbutton switches - bushing Ø 16 - momentary

Distinctive features and specifications



- **Q** Rear mounting for easier installation
- 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 m Ω max.
- Insulation resistance : 1 G Ω 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 (LOG)	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.						

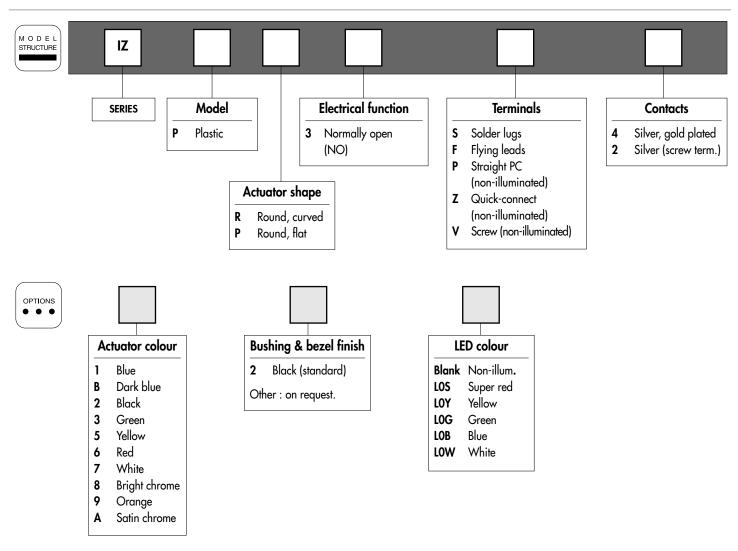
MATERIALS

- 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

Rear mounted sealed pushbutton switches - bushing \emptyset 16 - momentary

Overview

IZ series



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.



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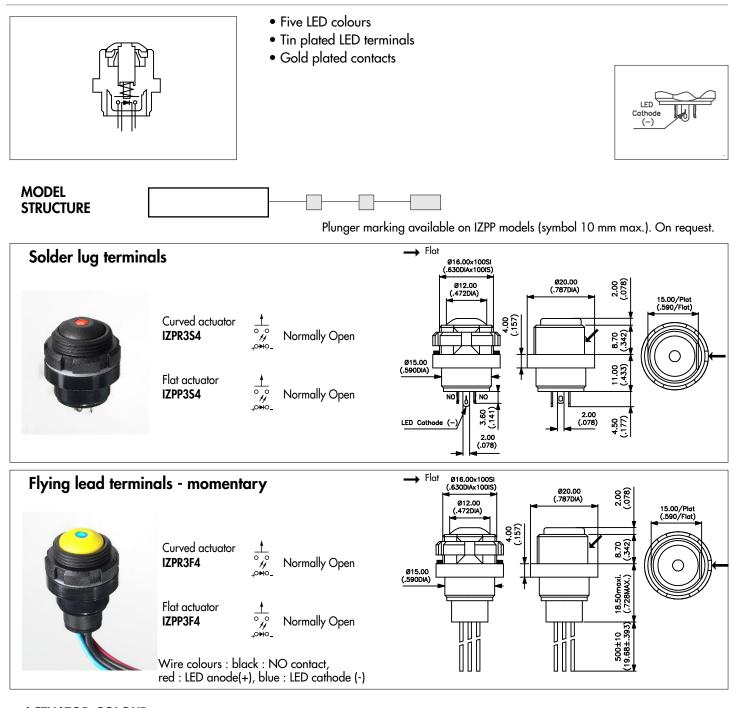
Mounting accessories : Standard hardware supplied : 1 castellated black plastic nut U4249 and 1 silicone flat seal.

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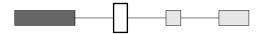
Packaging unit : 25 pieces for flying lead models - 40 pieces for other models

Rear mounted sealed pushbutton switches - bushing \emptyset 16 - momentary

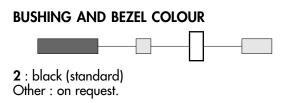
Illuminated



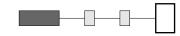
ACTUATOR COLOUR



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



LED COLOUR

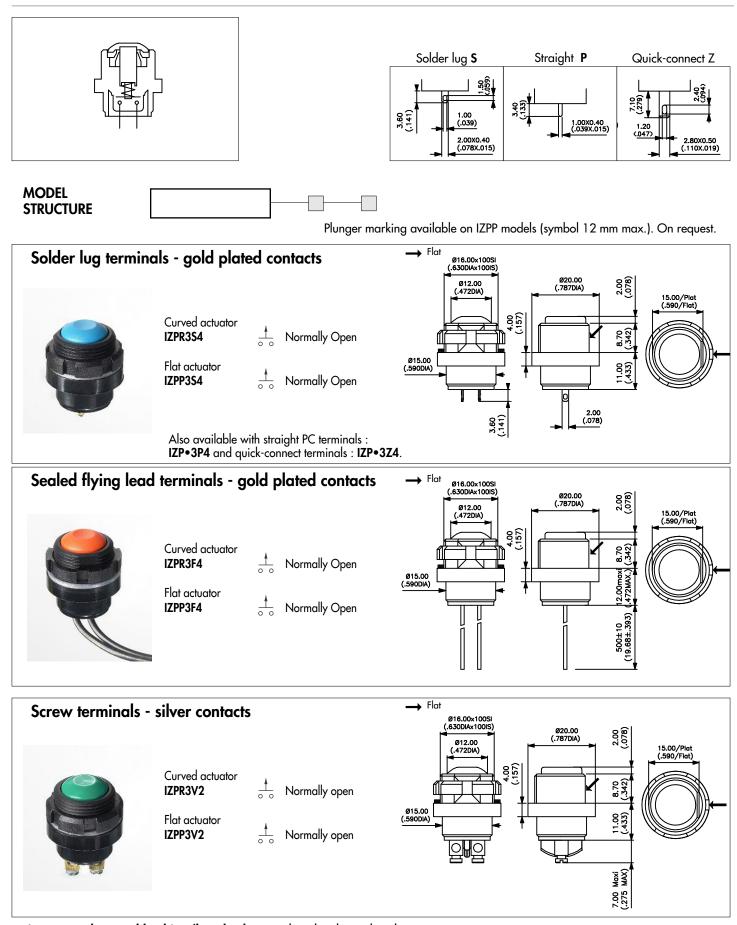


LOS : super red - LOY : yellow - LOG : green LOB : blue - LOW : white

Rear mounted sealed pushbutton switches - bushing \emptyset 16 - momentary

Non-illuminated

IZ series



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



- **Q** Rear mounting for easier installation
- Latching action models
- Illuminated or non-illuminated
- Flat actuator for optional marking
- Sealed to IP67

ENVIRONMENTAL AND GENERAL SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS

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

LED COMPONENT SPECIFICATIONS					
LED colour	Forward current	Typ. forward voltage	Max. forward voltage		
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Green (L0G)	20mA	3,2V	3,70V		
Blue (LOB)	20mA	3,2V	4V		

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.

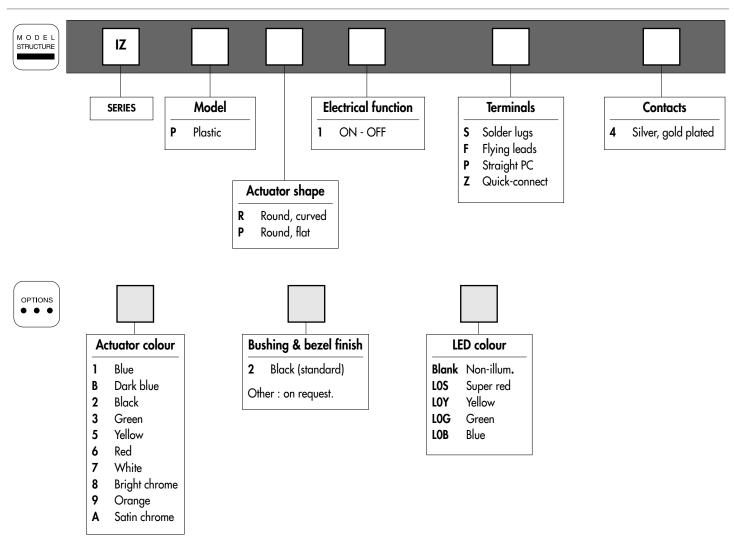
MATERIALS

- 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

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

Distinctive features and specifications

IZ series



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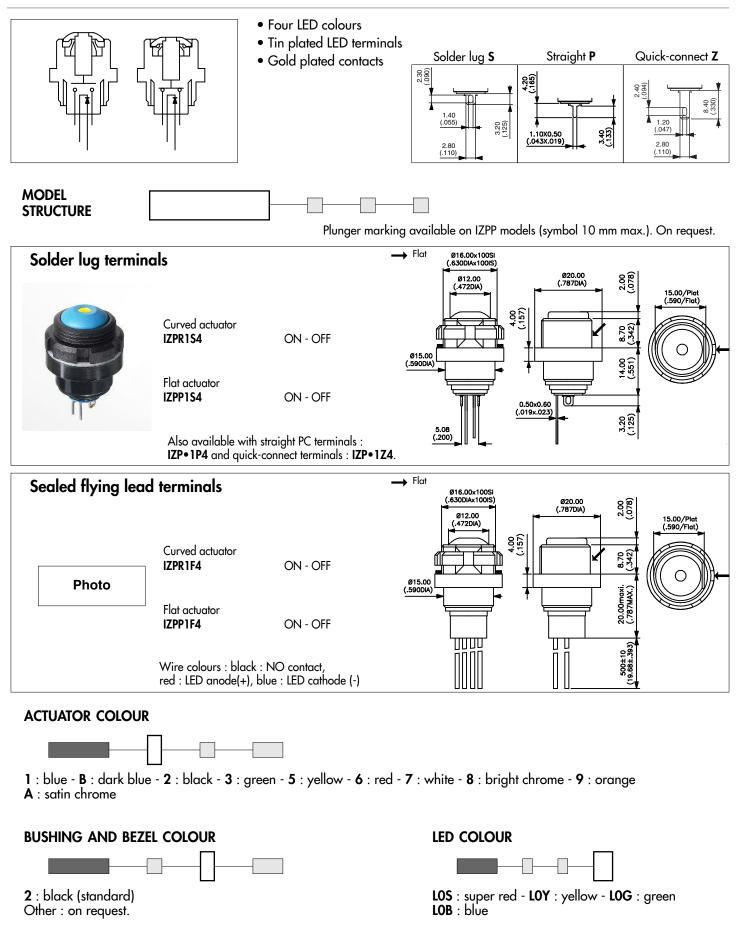
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Rear mounted sealed pushbutton switches - bushing \emptyset 16 - latching action

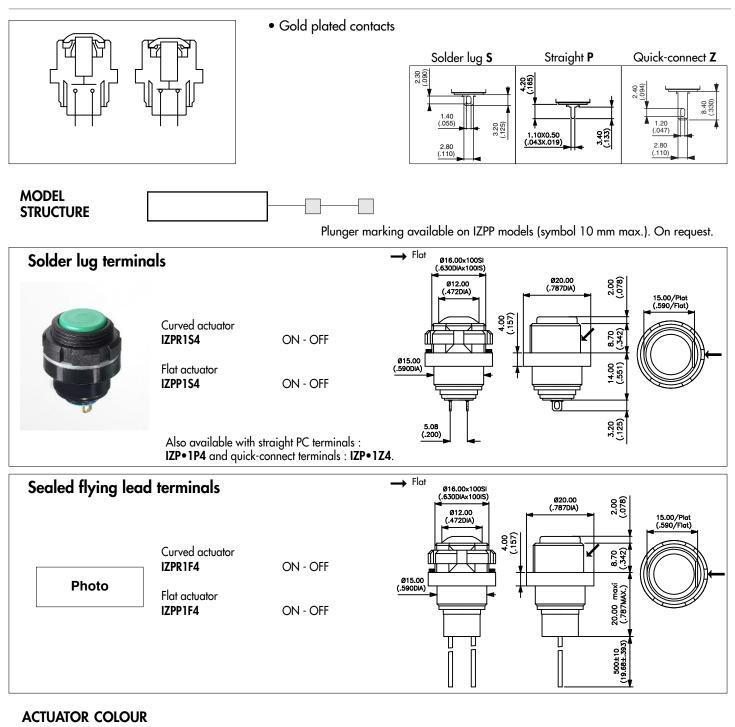
Illuminated



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

Non-illuminated

IZ series



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.