

IZ series

New!

Rear mounted sealed pushbutton switches - bushing Ø 16 mm - metal - momentary

Distinctive features and specifications



- ☐ Rear mounting for easier installation
- ☐ Momentary metal models
- ☐ Fixed or variable panel thickness
- ☐ Screw version available up to 4A
- ☐ Sealed to IP67
- ☐ Illuminated or non-illuminated
- ☐ Flat actuator for optional marking

UG1006-A

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

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

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

GENERAL SPECIFICATIONS

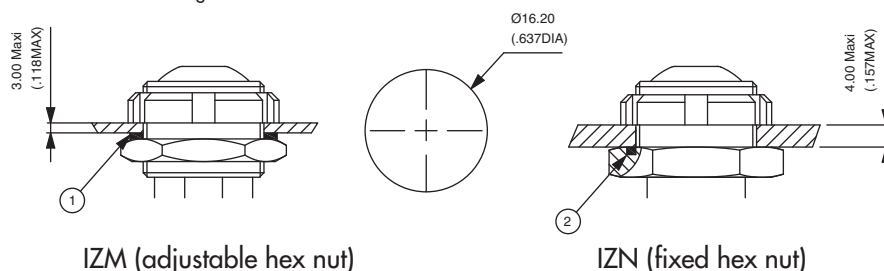
- Panel thickness :
 - IZM : 3 mm (.118) max.
 - IZN : 4 mm (.157) max.
- Total travel : 1,8 mm (.070) +/- 0,3 mm
- Typical operating force : 6N +/- 2N
- Mechanical life : 1.000.000 cycles
- Torque : IZN : 1 Nm max.
- IZM : 0,7 Nm max. applied to nut
- Soldering : 320°C max. for 3 sec.

MATERIALS

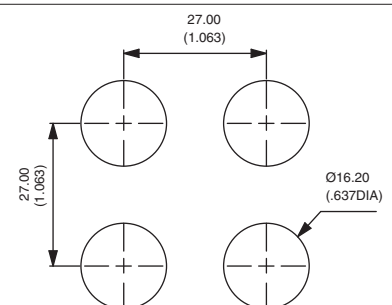
- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : brass, nickel plated
- Contacts :
 - 4 : silver, gold plated
 - 2 : silver (screw terminals)
- Multi-wire lead AWG20, section 0,6 mm²
- LED wire : AWG26, section 0,12 mm²
- Lens : polycarbonate
- Terminal seal : epoxy

PANEL CUT-OUT

- ① Flat seal ② O-ring



MATRIX MOUNTING

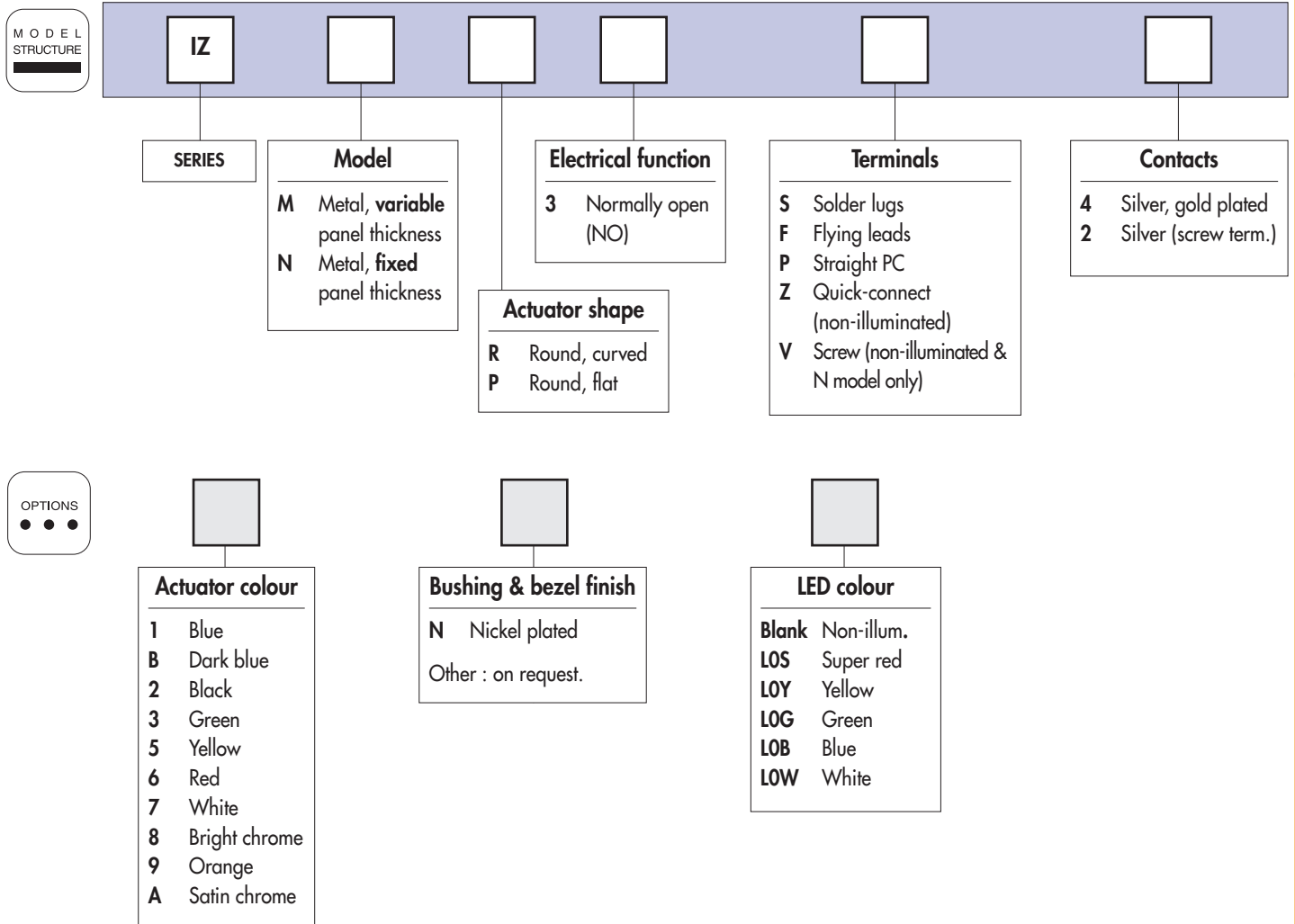


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Rear mounted sealed pushbutton switches - bushing Ø 16 mm - metal - momentary

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 :

- IZM : 1 castellated nickel plated brass nut U6915 + 1 silicone flat seal + 1 hex nut 19 mm (.748) across flats U4116.
- IZN : 1 castellated nickel plated brass nut U6915 + 1 O-ring



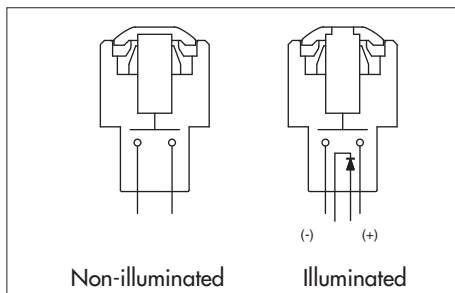
Packaging unit : 25 pieces for flying lead models - 40 pieces for other models

IZ series

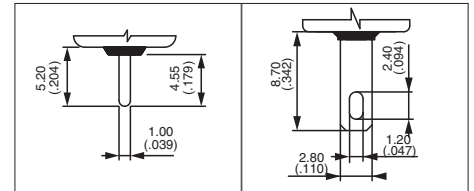
New!

Rear mounted sealed pushbutton switches - bushing Ø 16 mm - metal - momentary

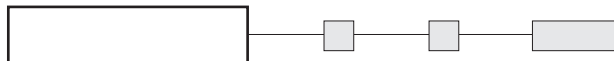
For variable panel thickness : IZM



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



MODEL STRUCTURE



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

Illuminated - solder lug terminals



Curved actuator
IZMR3S4



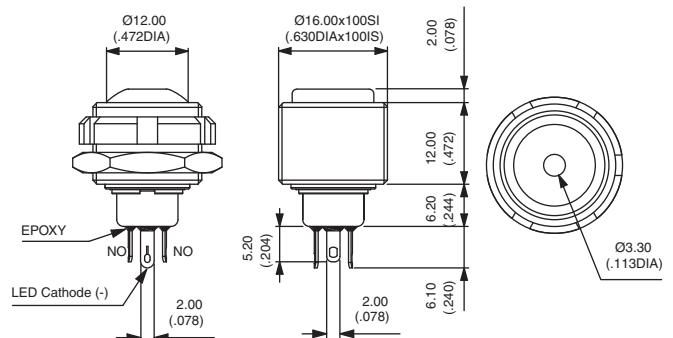
Normally Open

Flat actuator
IZMP3S4



Normally Open

Also available with straight PC terminals : **IZM•3P4**.
LED colour is indicated by the bottom of the switch.



Illuminated - flying lead terminals



Curved actuator
IZMR3F4



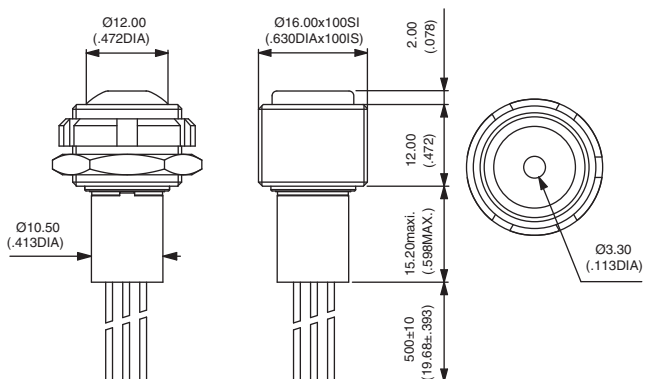
Normally Open

Flat actuator
IZMP3F4



Normally Open

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



Non-illuminated - solder lug terminals



Curved actuator
IZMR3S4



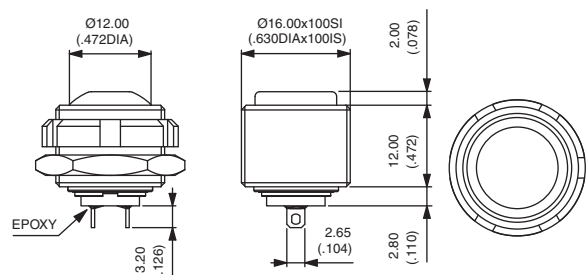
Normally Open

Flat actuator
IZMP3S4



Normally Open

Also available with straight PC terminals :
IZM•3P4 and quick-connect terminals : **IZM•3Z4**.



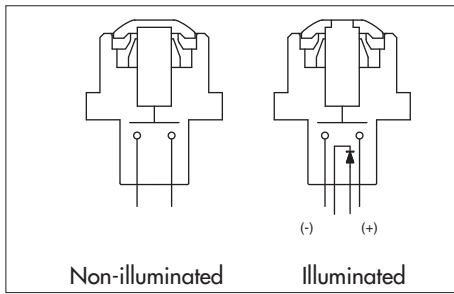
For non-illuminated FLYING LEAD versions, refer to illuminated models above. Non-illuminated have 2 wires only.

New!

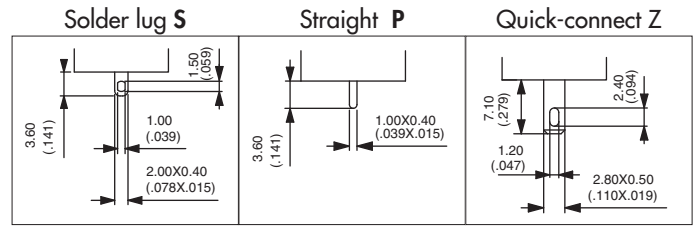
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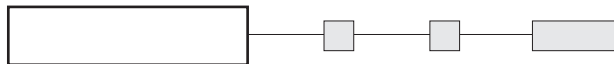
For fixed panel thickness : IZN



- Five LED colours
- Tin plated LED terminals



MODEL
STRUCTURE



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

Illuminated - solder lug terminals

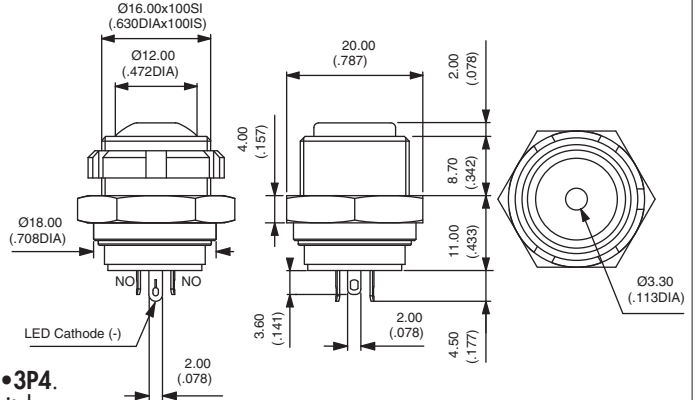


GOLD PLATED CONTACTS

Curved actuator
IZNR3S4 Normally Open

Flat actuator
IZNP3S4 Normally Open

Also available with straight PC terminals : **IZN•3P4**.
LED colour is indicated by the bottom of the switch.



Illuminated - sealed flying lead terminals

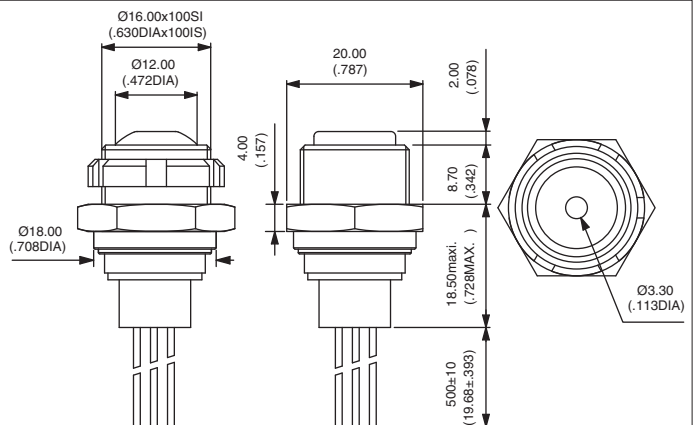


GOLD PLATED CONTACTS

Curved actuator
IZNR3F4 Normally Open

Flat actuator
IZNP3F4 Normally Open

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



Non-illuminated - solder lug terminals

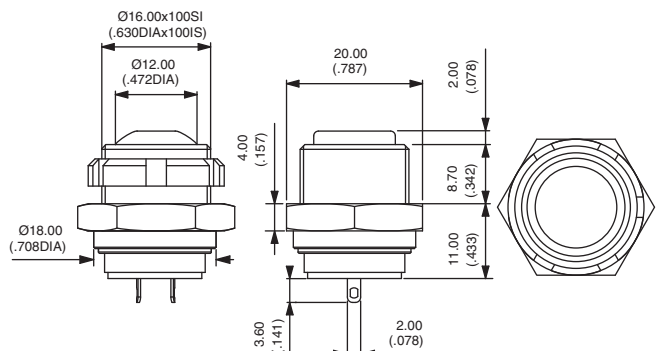


GOLD PLATED CONTACTS

Curved actuator
IZNR3S4 Normally Open

Flat actuator
IZNP3S4 Normally Open

Also available with straight PC terminals :
IZN•3P4 and quick-connect terminals : **IZN•3Z4**.



For non-illuminated FLYING LEAD versions, refer to illuminated models above. Non-illuminated have 2 wires only.

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For fixed panel thickness : IZN - options

Non-illuminated - screw terminals



SILVER CONTACTS

Curved actuator
IZNR3V2

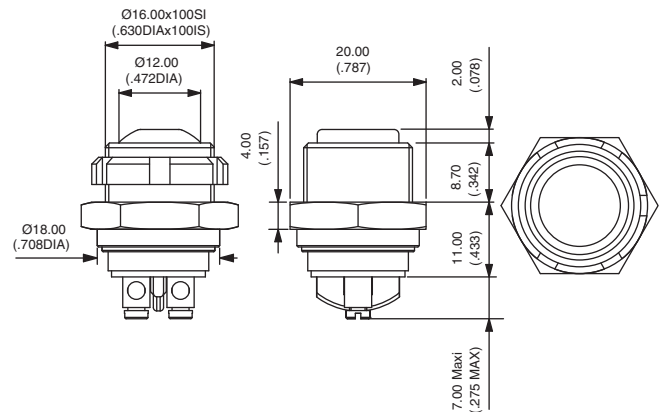


Normally open

Flat actuator
IZNP3V2



Normally open

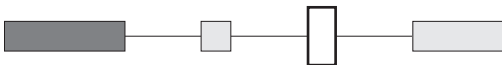


ACTUATOR COLOUR



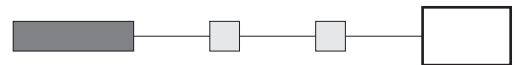
1 : blue - **B** : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange
A : satin chrome

BUSHING AND BEZEL COLOUR



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

LED COLOUR



Blank : non-illuminated
LOS : super red - **LOY** : yellow - **LOG** : green
LOB : blue - **LOW** : white

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

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

UG1006-A

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
- Robustness (non-illuminated) : IK06 according to EN 50102 (1 joule)
- Operating temperature : -40°C to +85°C

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 100mA 24VDC - 200.000 cycles
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ 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 (LOG)	20mA	3,2V	3,70V
Blue (LOB)	20mA	3,2V	4V

A resistor must be series-connected by the user.

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

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

GENERAL SPECIFICATIONS

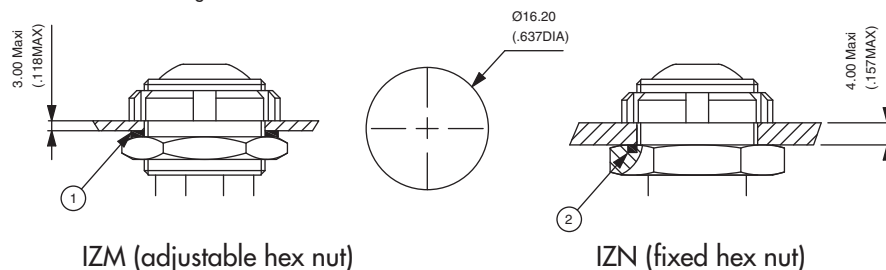
- Panel thickness :
 - IZM : 3 mm (.118) max.
 - IZN : 4 mm (.157) max.
- Total travel : 2,5 mm (.098) +/- 0,3 mm
- Typical operating force : 5N +/- 2N
- Mechanical life : 200.000 cycles
- Torque : IZN : 1 Nm max.
IZM : 0,7 Nm max. applied to nut
- Soldering : 320°C max. for 3 sec.

MATERIALS

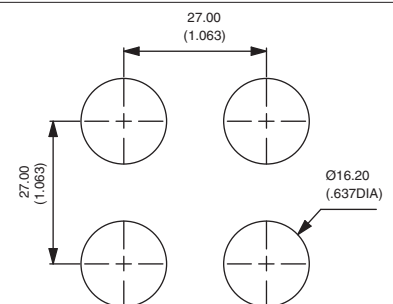
- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : brass, nickel plated
- Contacts : silver, gold plated
- Multi-wire lead AWG20, section 0,6 mm²
- LED wire : AWG26, section 0,12 mm²
- Lens : polycarbonate
- Terminal seal : epoxy

PANEL CUT-OUT

- ① Flat seal ② O-ring



MATRIX MOUNTING

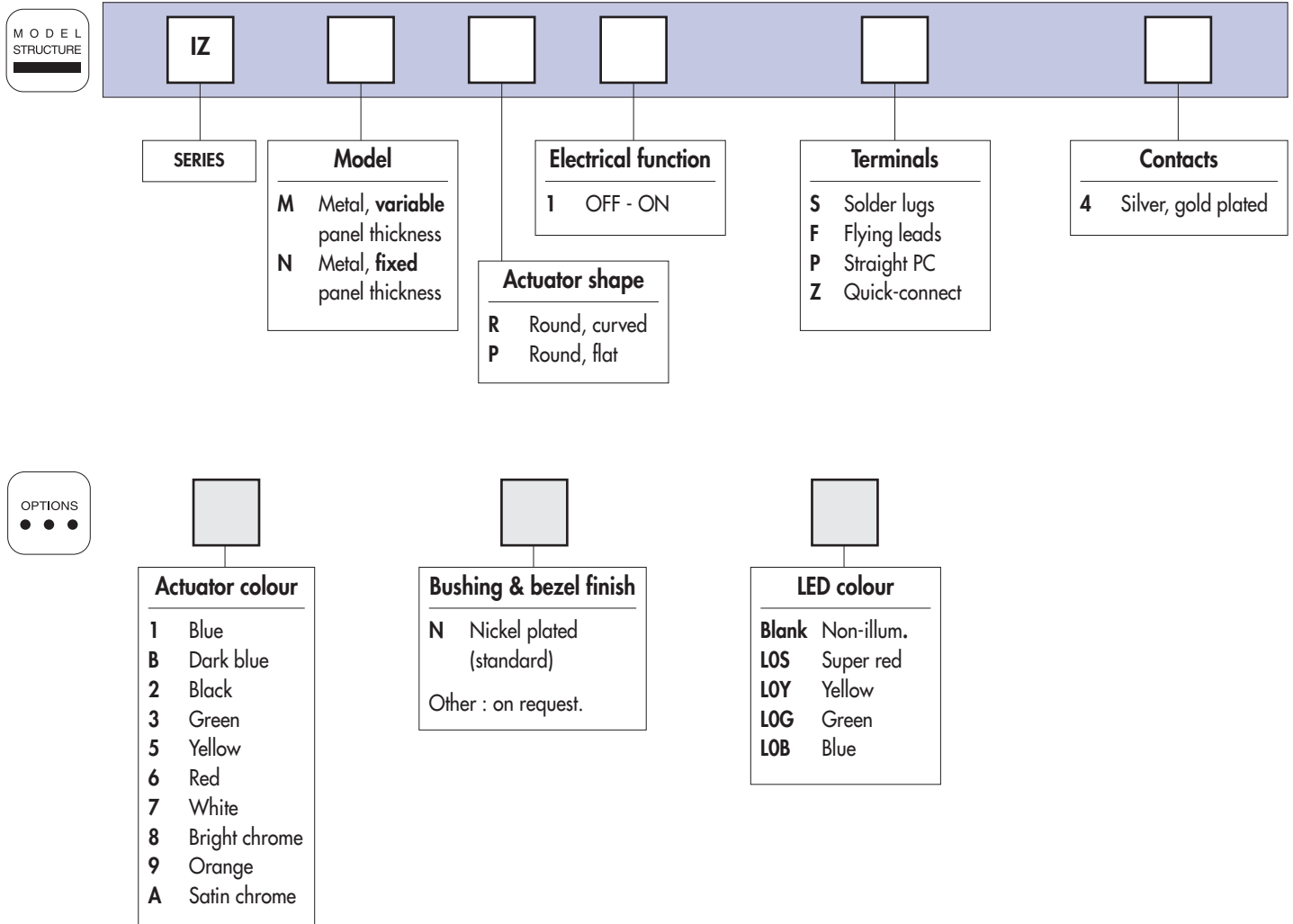


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Refer to the following pages for further information.



Mounting accessories : Standard hardware supplied :

- IZN : 1 castellated nickel plated brass nut U6915 + 1 O-ring
- IZM : 1 castellated nickel plated brass nut U6915 + 1 silicone flat seal + 1 hex nut 19 mm (.748) across flats U4116.



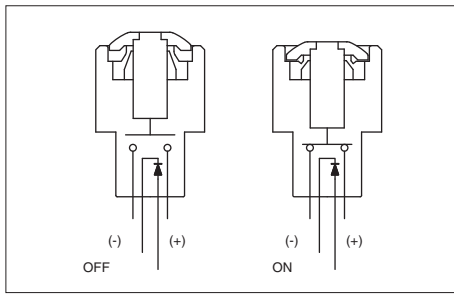
Packaging unit : 25 pieces for flying lead models - 40 pieces for other models

New!

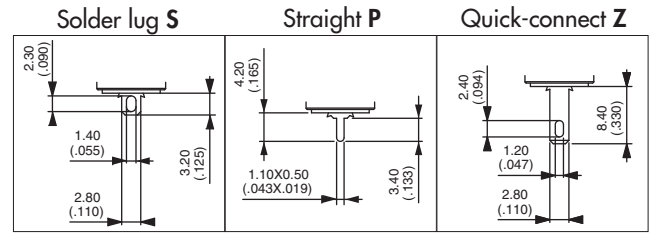
IZ series

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

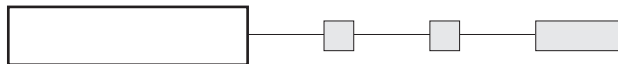
For variable panel thickness : IZM



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



MODEL
STRUCTURE



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

Illuminated - solder lug terminals



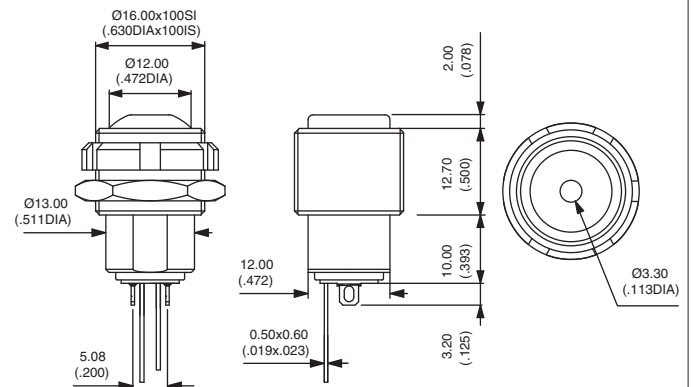
Curved actuator
IZMR1S4

OFF - ON

Flat actuator
IZMP1S4

OFF - ON

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



Illuminated - flying lead terminals



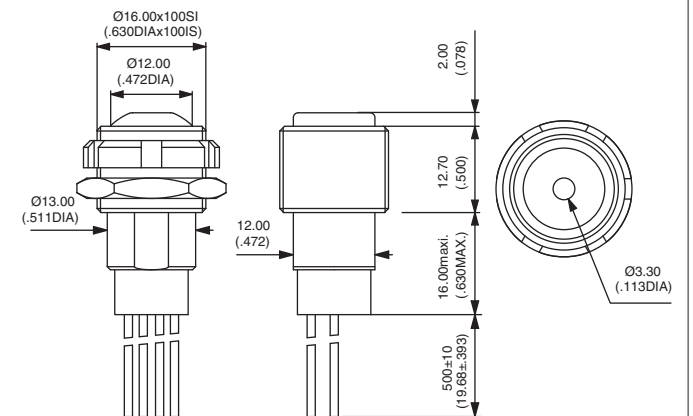
Curved actuator
IZMR1F4

OFF - ON

Flat actuator
IZMP1F4

OFF - ON

Wire colours : black : contact,
red : LED anode(+), blue : LED cathode (-)



Non-illuminated - solder lug terminals



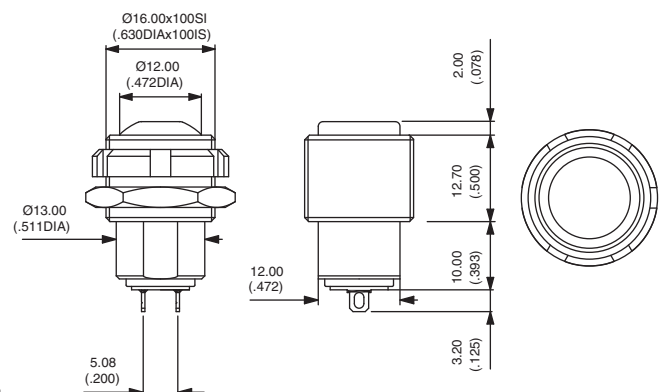
Curved actuator
IZMR1S4

OFF - ON

Flat actuator
IZMP1S4

OFF - ON

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



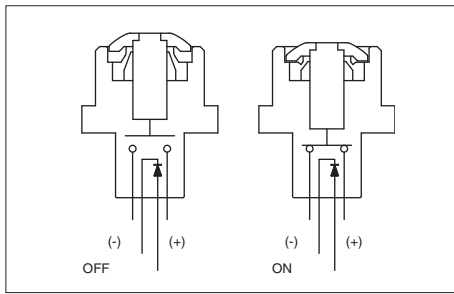
For FLYING LEAD versions, refer to illuminated models above. Non-illuminated have 2 wires only.

IZ series

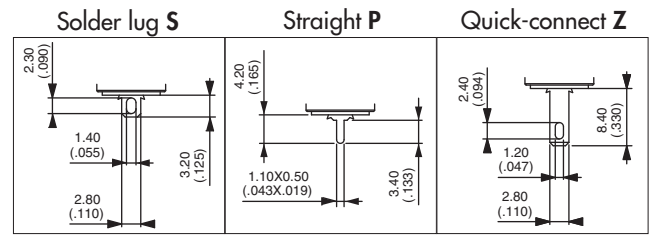
New!

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

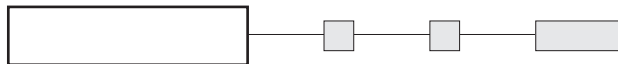
For fixed panel thickness : IZN



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



MODEL STRUCTURE



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

Illuminated - solder lug terminals



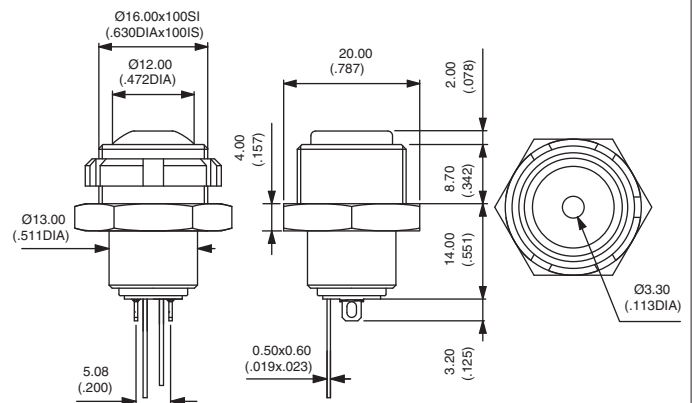
Curved actuator
IZNR1S4

OFF - ON

Flat actuator
IZNP1S4

OFF - ON

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



Illuminated - flying lead terminals



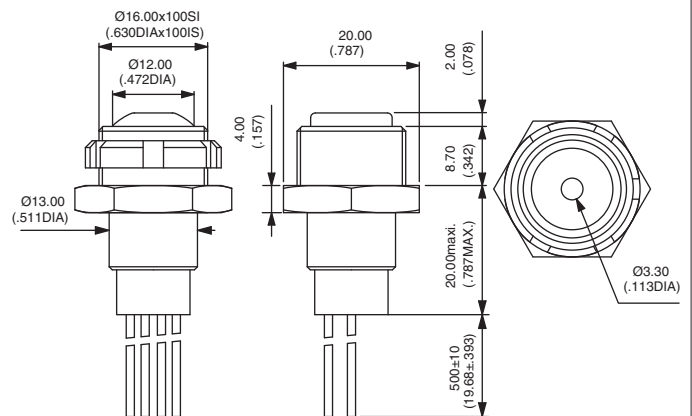
Curved actuator
IZNR1F4

OFF - ON

Flat actuator
IZNP1F4

OFF - ON

Wire colours : black : contact,
red : LED anode(+), blue : LED cathode (-)



Non-illuminated - solder lug terminals



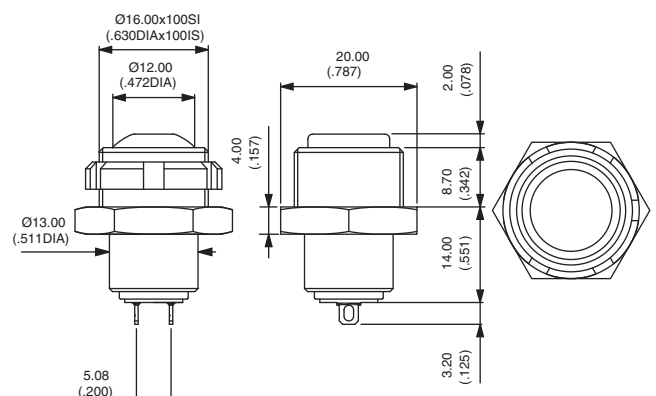
Curved actuator
IZNR1S4

OFF - ON

Flat actuator
IZNP1S4

OFF - ON

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



For FLYING LEAD versions, refer to illuminated models above. Non-illuminated have 2 wires only.

New!

I² series

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

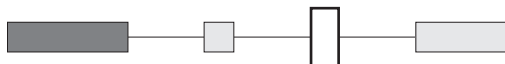
Options

ACTUATOR COLOUR



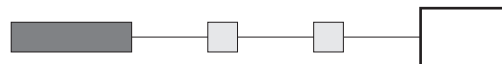
1 : blue - **B** : dark blue - **2** : black - **3** : green - **5** : yellow - **6** : red - **7** : white - **8** : bright chrome - **9** : orange
A : satin chrome

BUSHING AND BEZEL COLOUR



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

LED COLOUR



Blank : non-illuminated
LOS : super red - **LOY** : yellow - **LOG** : green
LOB : blue

B

I² series

New!

Rear mounted sealed pushbutton switches - bushing Ø 16 mm - momentary

Distinctive features and specifications



- ☐ Rear mounting for easier installation
- ☐ Momentary models
- ☐ Screw version available up to 4A
- ☐ Sealed to IP67
- ☐ Illuminated or non-illuminated
- ☐ Flat actuator for optional marking

UG1006-A

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

GENERAL SPECIFICATIONS

- Panel thickness : 3 mm (.118) max.
- Total travel : 1,8 mm (.070) +/- 0,3 mm
- Typical operating force : 6N +/- 2N
- Mechanical life : 1.000.000 cycles
- Torque : 0,7 Nm max. applied to nut
- Soldering : 320°C max. for 3 sec.

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

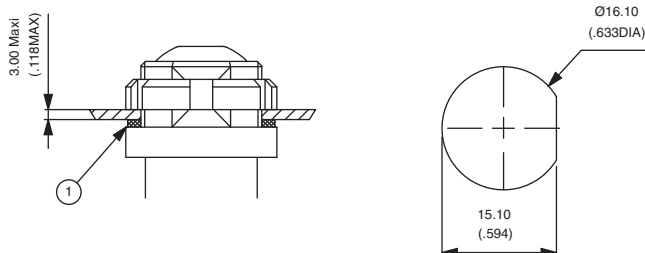
On flying lead versions, the LED resistor can be integrated by APEM on request.

MATERIALS

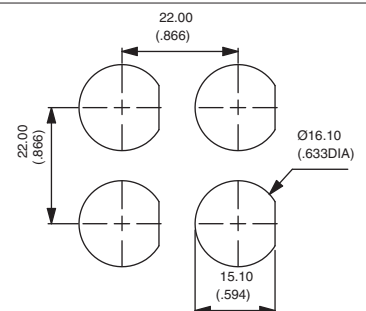
- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : polyamide
- Contacts :
 - 4 : silver, gold plated
 - 2 : silver (screw terminals)
- Multi-wire lead AWG20, section 0,6 mm²
- LED wire : AWG26, section 0,12 mm²
- Lens : polycarbonate
- Terminal seal : epoxy

PANEL CUT-OUT

① Flat seal



MATRIX MOUNTING

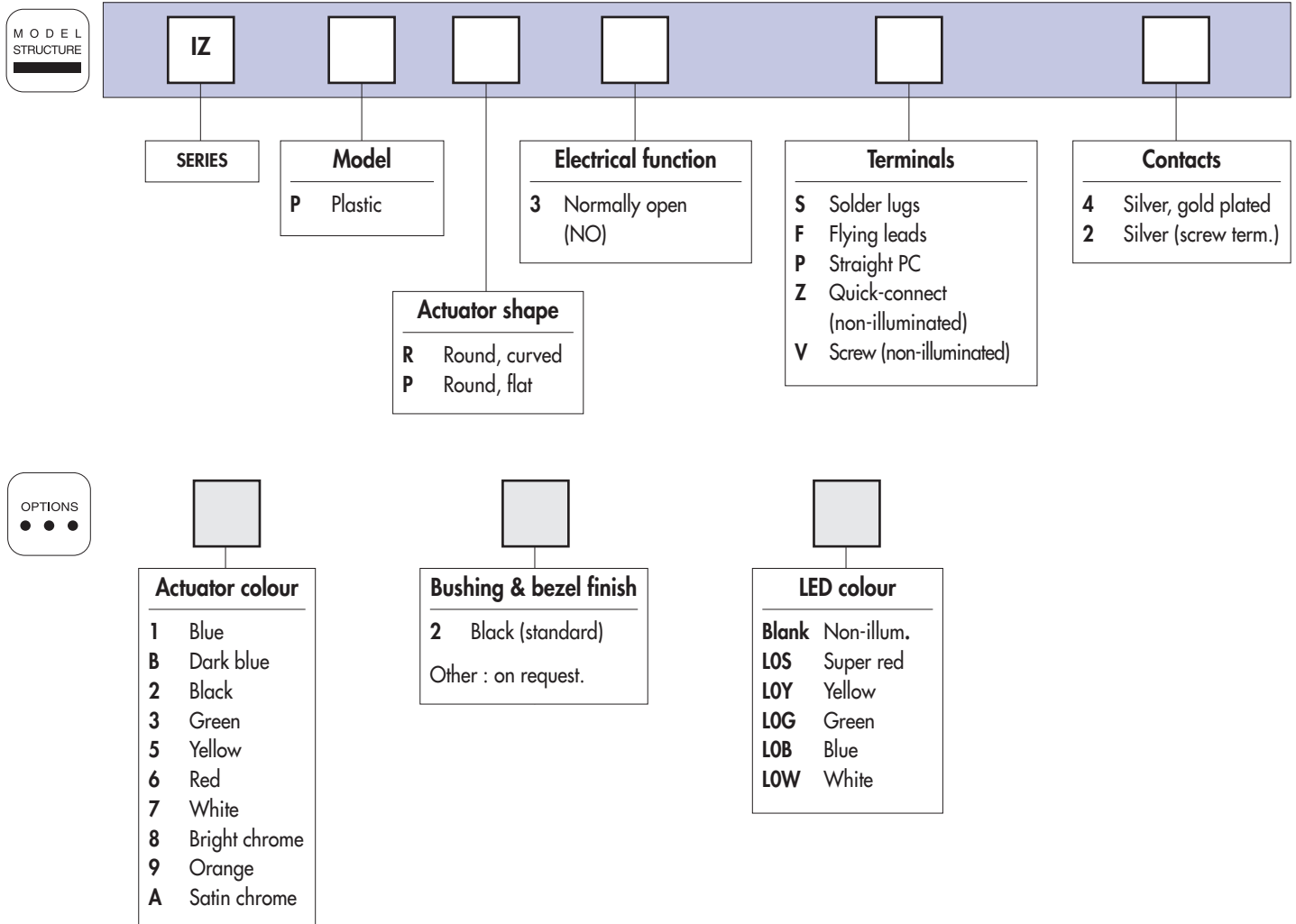


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Dimensions : first dimensions are in mm while inches are shown as bracketted numbers.



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.



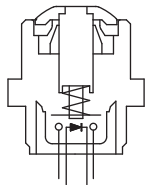
Packaging unit : 25 pieces for flying lead models - 40 pieces for other models

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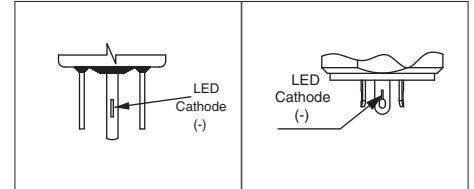
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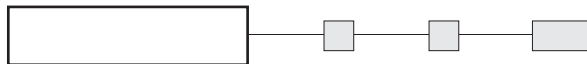
Illuminated



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



MODEL STRUCTURE



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

Solder lug terminals



Curved actuator
IZPR3S4



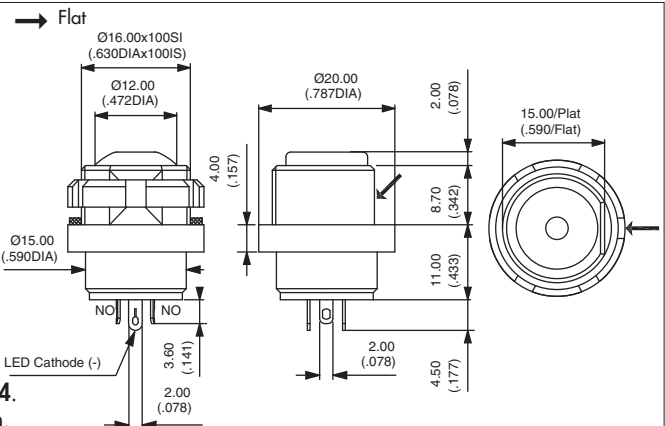
Normally Open

Flat actuator
IZPP3S4



Normally Open

Also available with straight PC terminals : **IZP•3P4**.
LED colour is indicated by the bottom of the switch.



Flying lead terminals - momentary



Curved actuator
IZPR3F4



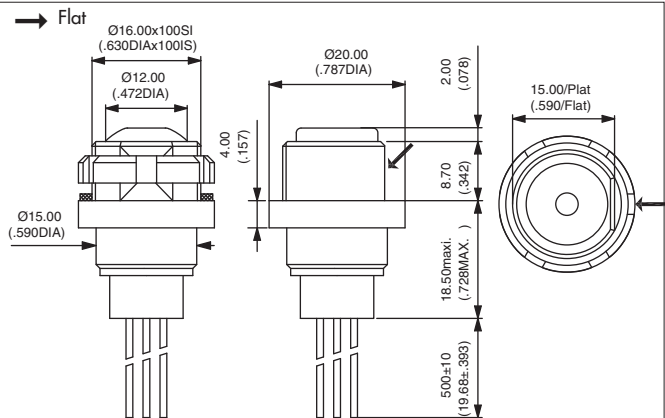
Normally Open

Flat actuator
IZPP3F4



Normally Open

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

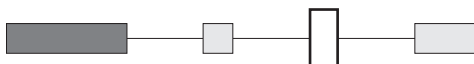


ACTUATOR COLOUR



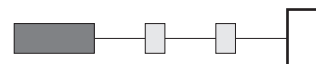
1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange
A : satin chrome

BUSHING AND BEZEL COLOUR



2 : black (standard)
Other : on request.

LED COLOUR



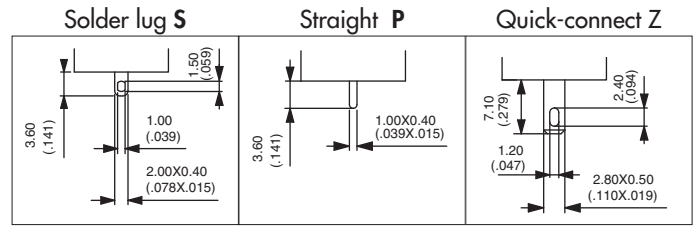
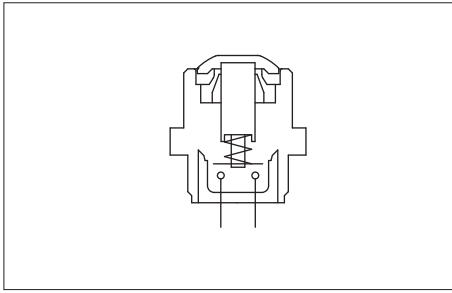
LOS : super red - LOY : yellow - LOG : green
LOB : blue - LOW : white

New!

IZ series

Rear mounted sealed pushbutton switches - bushing Ø 16 mm - momentary

Non-illuminated



MODEL
STRUCTURE



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

Solder lug terminals - gold plated contacts



Curved actuator
IZPR3S4



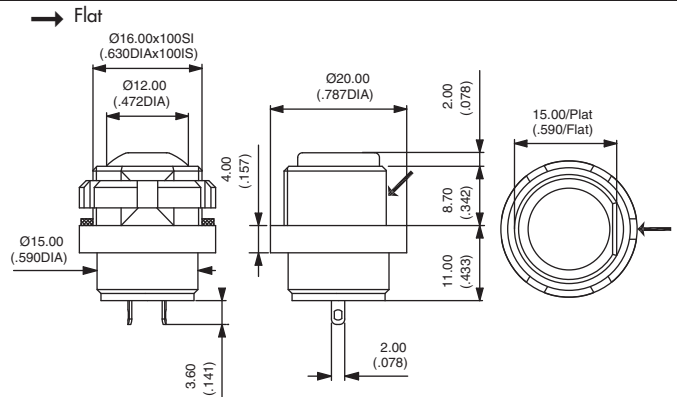
Normally Open

Flat actuator
IZPP3S4



Normally Open

Also available with straight PC terminals :
IZP•3P4 and quick-connect terminals : **IZP•3Z4**.



Sealed flying lead terminals - gold plated contacts



Curved actuator
IZPR3F4

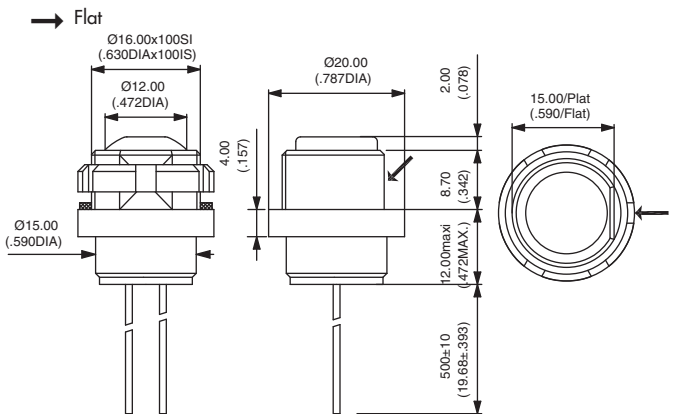


Normally Open

Flat actuator
IZPP3F4



Normally Open



Screw terminals - silver contacts



Curved actuator
IZPR3V2

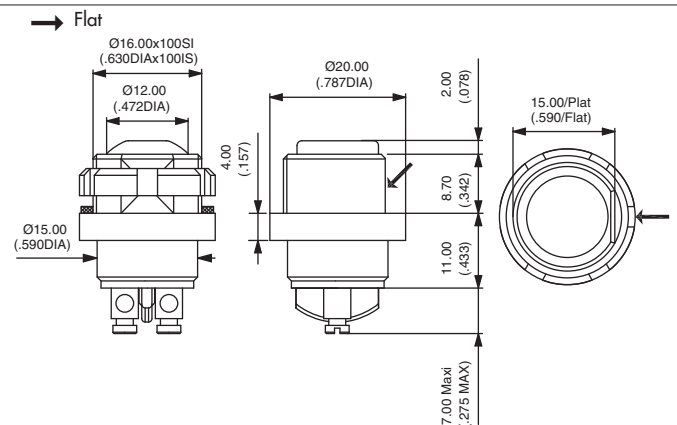


Normally open

Flat actuator
IZPP3V2



Normally open



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

I² series

New!

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

Distinctive features and specifications

UG1006-A



- ☐ 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

ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating with resistive load : 100mA 24VDC - 200.000 cycles
- Initial contact resistance : 100 mΩ 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 (LOG)	20mA	3,2V	3,70V
Blue (LOB)	20mA	3,2V	4V

A resistor must be series-connected by the user.

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

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

GENERAL SPECIFICATIONS

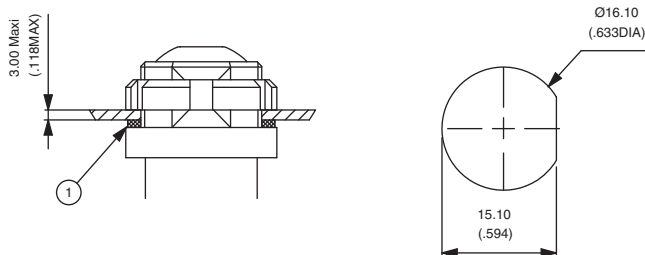
- Panel thickness : 3 mm (.118) max.
- Total travel : 2,5 mm (.098) +/- 0,3 mm
- Typical operating force : 5N +/- 2N
- Mechanical life : 200.000 cycles
- Torque : 0,7 Nm max. applied to nut
- Soldering : 320°C max. for 3 sec.

MATERIALS

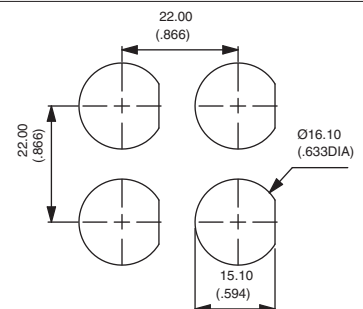
- Case : thermoplastic UL94-V0
- Plunger : polyamide
- Bushing/bezel : polyamide
- Contacts : silver, gold plated
- Multi-wire lead AWG20, section 0,6 mm²
- LED wire : AWG26, section 0,12 mm²
- Lens : polycarbonate
- Terminal seal : epoxy

PANEL CUT-OUT

① Flat seal



MATRIX MOUNTING

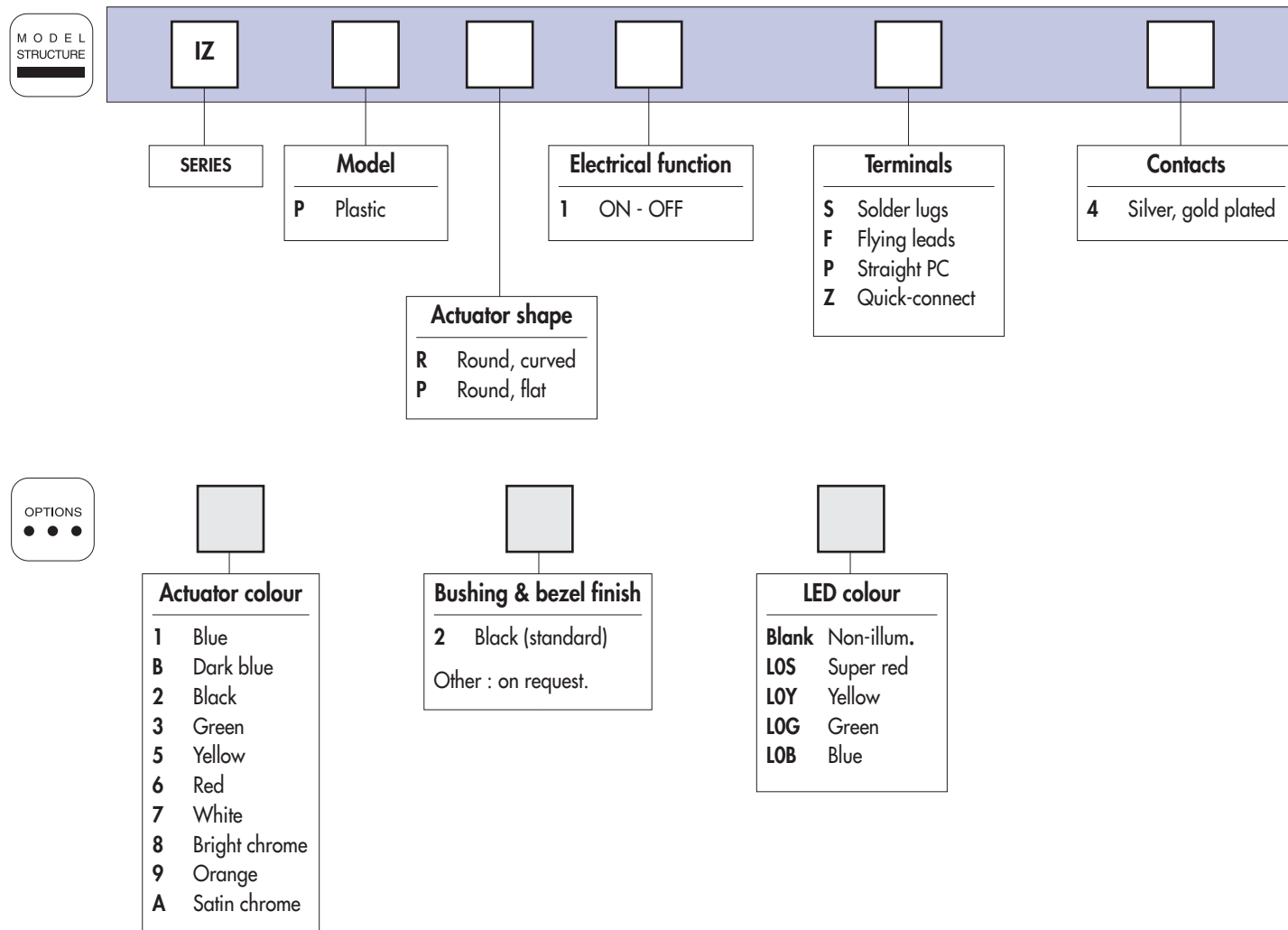


New!

IZ series

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

Distinctive features and specifications



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.



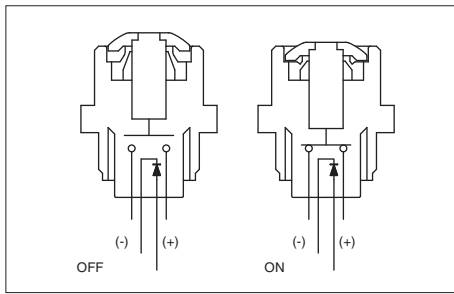
Packaging unit : 25 pieces for flying lead models - 40 pieces for other models

IZ series

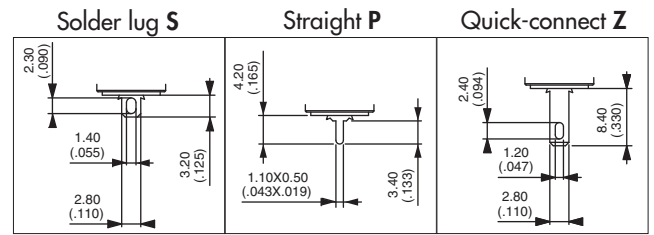
New!

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

Illuminated



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



MODEL STRUCTURE



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

Solder lug terminals



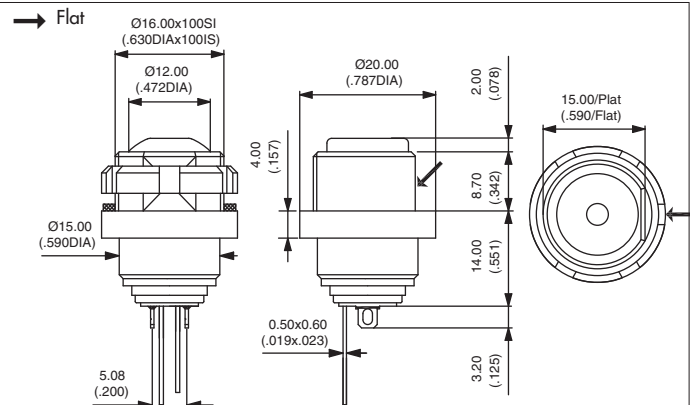
Curved actuator
IZPR1S4

ON - OFF

Flat actuator
IZPP1S4

ON - OFF

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



Sealed flying lead terminals



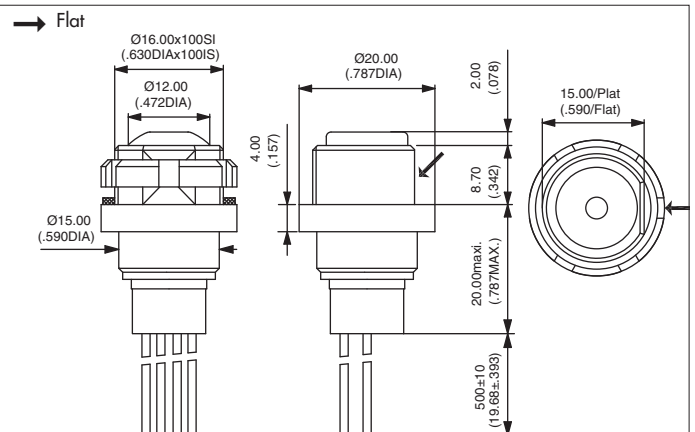
Curved actuator
IZPR1F4

ON - OFF

Flat actuator
IZPP1F4

ON - OFF

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

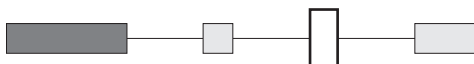


ACTUATOR COLOUR



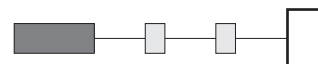
1 : blue - B : dark blue - 2 : black - 3 : green - 5 : yellow - 6 : red - 7 : white - 8 : bright chrome - 9 : orange
A : satin chrome

BUSHING AND BEZEL COLOUR



2 : black (standard)
Other : on request.

LED COLOUR



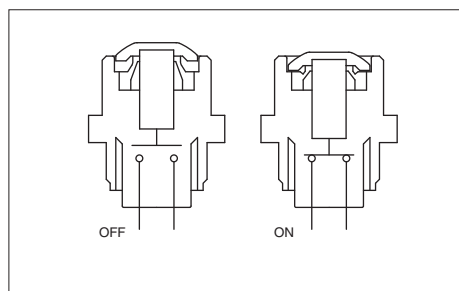
LOS : super red - LOY : yellow - LOG : green
LOB : blue

New!

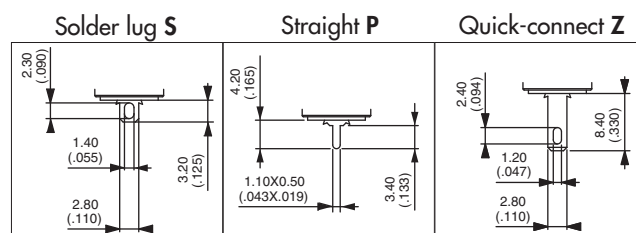
IZ series

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

Non-illuminated



- Gold plated contacts



MODEL
STRUCTURE



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

Solder lug terminals



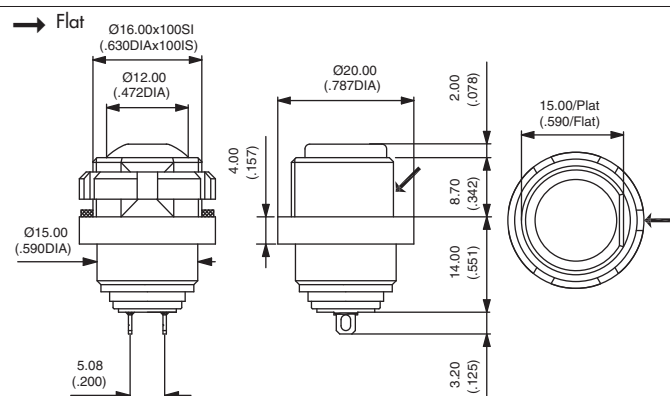
Curved actuator
IZPR1S4

ON - OFF

Flat actuator
IZPP1S4

ON - OFF

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



Sealed flying lead terminals

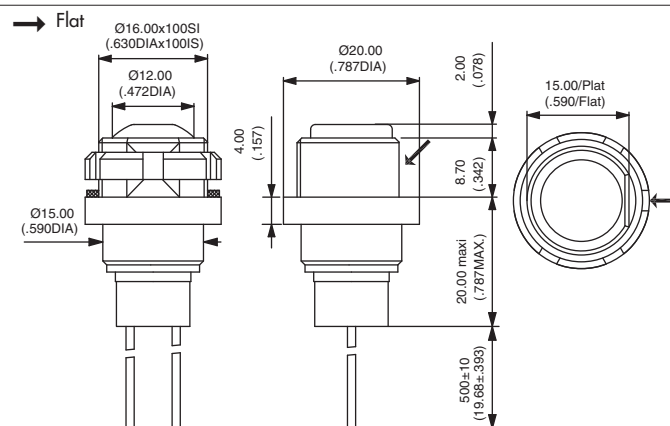


Curved actuator
IZPR1F4

ON - OFF

Flat actuator
IZPP1F4

ON - OFF



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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Apem:](#)

[IZPR3P422](#) [IZPR3S422](#) [IZPR1S422](#) [IZPR3Z422](#)