

UG1410A



- ☐ Illuminated or non-illuminated
- ☐ Tactile feedback
- ☐ Wide variety of configurations
- ☐ Flat round actuator for optional marking
- ☐ Sealed to IP67

ENVIRONMENTAL SPECIFICATIONS

- Front panel sealing : IP67 according to IEC 60529
IP69K according to DIN 40050-9 (non-illuminated) with cap U5125
- 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 (gold plated silver contacts):
5A 28VDC, 70.000 cycles
0,2A 48VDC, 500.000 cycles
0,5A 48VAC, 500.000 cycles
- Initial contact resistance : 100 mΩ max.
- Insulation resistance : 1 GΩ min. at 500VDC
- Dielectric strength : 1.500 Vrms
- Contact bounce : 10 ms

For W terminals, current has to be limited to 400mA.

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

GENERAL SPECIFICATIONS

- Panel thickness : 1,5 mm (.059) min.
4 mm (.157 max.)
- Total travel :
Funct. 3 : 1,7 mm (.067) +/- 0,3 mm
Funct. 5 : 1,3 mm (.051) +/- 0,3 mm
- Typical operating force : 6N +/- 2N
- Low level/mech. life : 1.000.000 cycles
- Torque : 1,5 Nm max. applied to nut
- Soldering : 320°C max. for 3 sec.

MATERIALS

- Case : thermoplastic UL94-V0
- Actuator : polyamide 6/6
- Bushing/bezel : zinc die-cast (zamac), black painted
- Contacts : silver, gold plated (std)
brass, gold plated (for option 104)
- Output wires (flying lead terminals) :
F version : AWG20, section 0,6 mm²
W version : AWG24, section 0,23 mm²
- LED wires :
F version : AWG26, section 0,12 mm²
W version : AWG24, section 0,23 mm²
- Lens : polycarbonate
- Terminal seal : epoxy

AGENCY APPROVAL

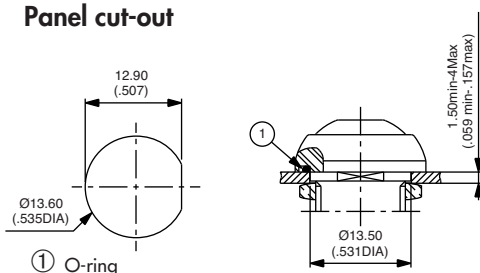


2A 125VAC/250VAC
File E83438

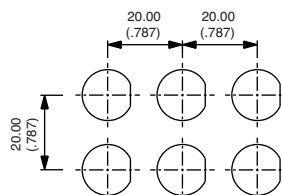
See following pages.

MOUNTING

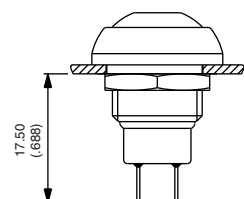
Panel cut-out



Matrix mounting



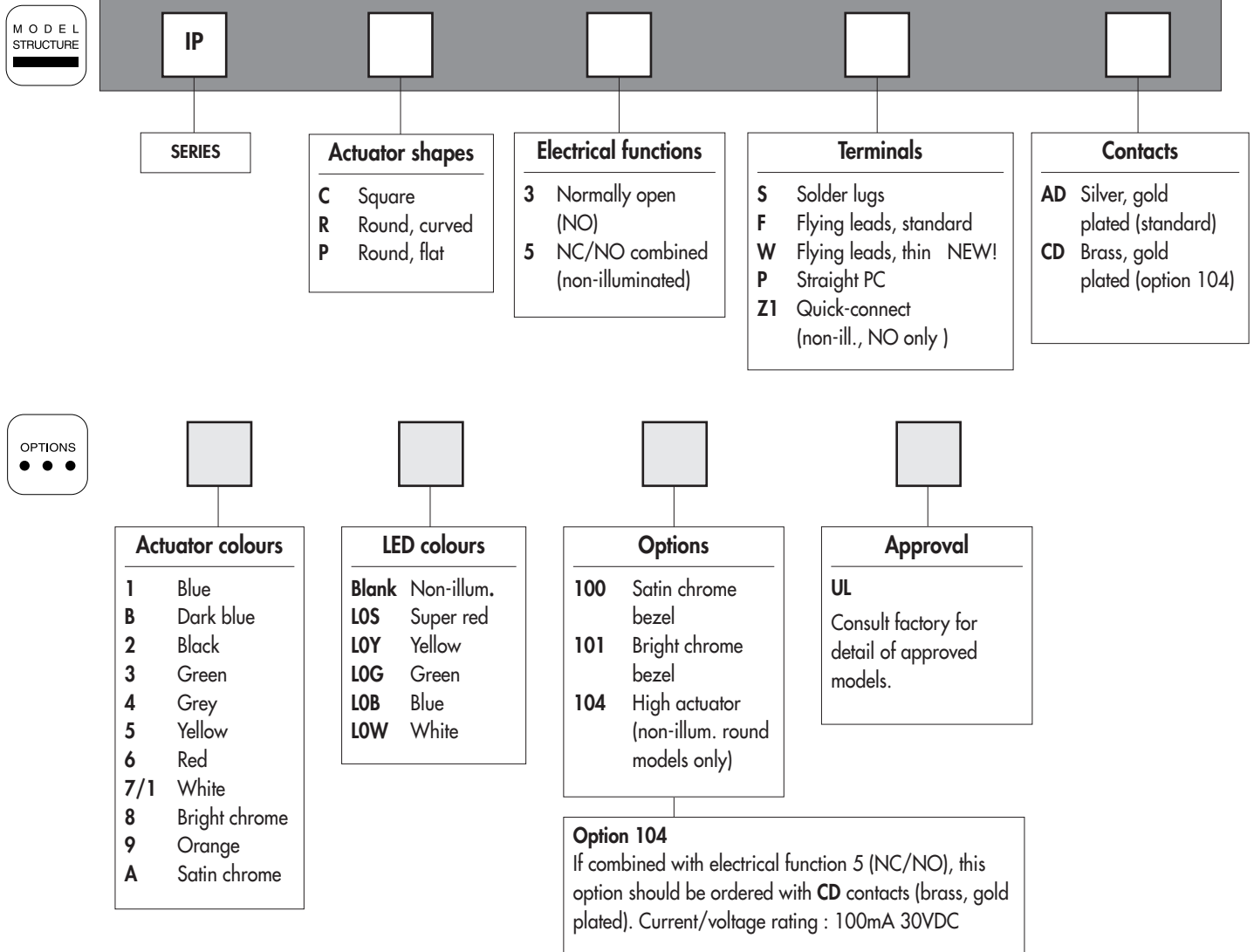
Back of panel space requirement



IP series

Pushbutton switches for harsh environments - bushing Ø 12 mm - 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 bracketed numbers.



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. It is presented after the IA series and in section H.

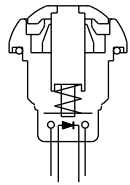


Mounting accessories : Standard hardware supplied : 1 hex nut 14 mm (.551) across flats and 1 O-ring. Hex nut part number U166.



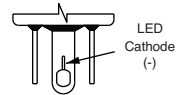
Packaging unit : 25 pieces

The company reserves the right to change specifications without notice.

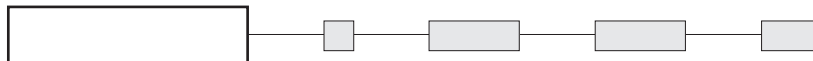


Function 3 (NO)

- High brightness illumination
- Five LED colours
- Tin plated LED terminals



MODEL STRUCTURE



Shown with standard flying lead terminals.

Solder lug terminals



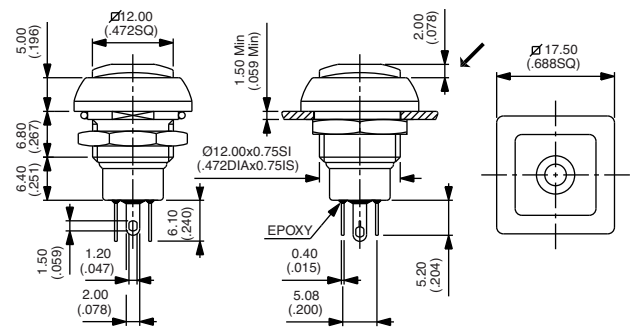
IPC3SAD



Normally Open

Also available with straight PC terminals : **IPC3PAD**
LED colour is indicated by the bottom of the switch.

→ Flat



Sealed flying lead terminals



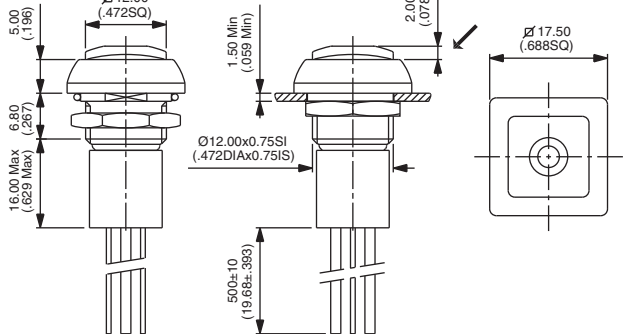
IPC3FAD



Normally Open

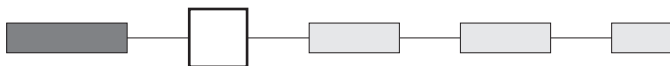
For THIN flying leads, replace F with W.

→ Flat



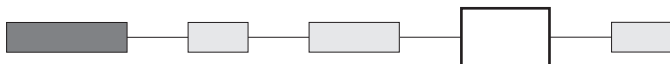
Wire colours : black : NO contact, red : LED anode(+), blue : LED cathode(-)

ACTUATOR COLOURS



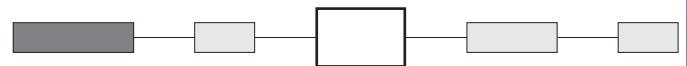
1 : blue - B : dark blue - 2 : black - 3 : green - 4 : grey
5 : yellow - 6 : red - 7/1 : white - 8 : bright chrome
9 : orange - A : satin chrome

OPTIONS



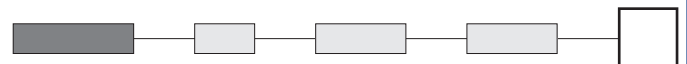
100 : Satin chrome bezel
101 : Bright chrome bezel

LED COLOURS



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

APPROVAL

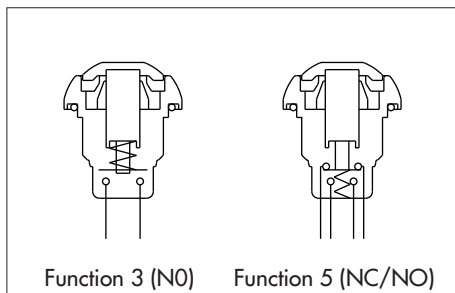


UL
Consult factory for details of approved models. To order switches marked UL, complete above box with "UL".

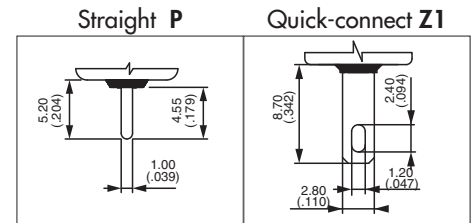
IP series

Pushbutton switches for harsh environments - bushing Ø 12 mm - momentary

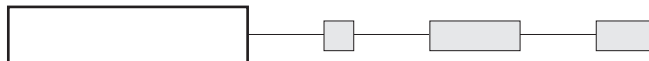
Square - non-illuminated



- Double function (NC/NO combined) with a short behind-panel depth



MODEL STRUCTURE



Shown with standard flying lead terminals.

Solder lug terminals



IPC3SAD



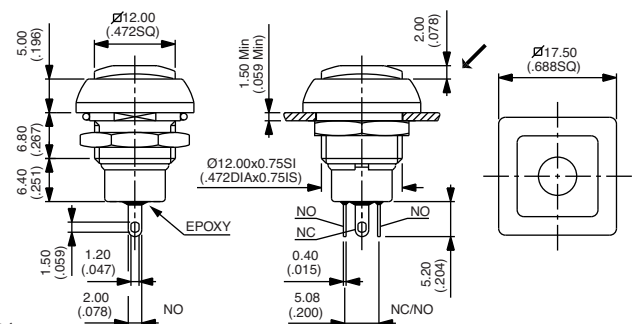
Normally Open

IPC5SAD



NC/NO combined

→ Flat



Also available with straight PC terminals : **IPC3PAD** (NO) or **IPC5PAD** (NC/NO) and quick-connect terminals : **IPC3Z1AD** (NO only)

Sealed flying lead terminals



IPC3FAD



Normally Open

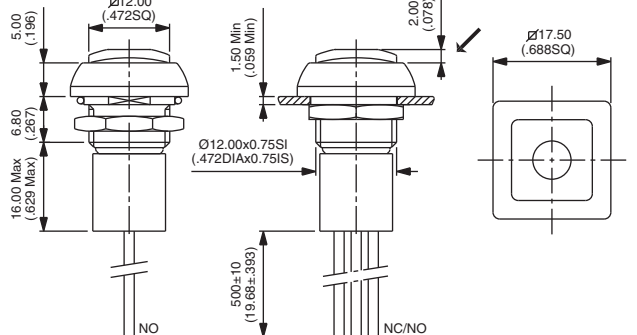
IPC5FAD



NC/NO combined

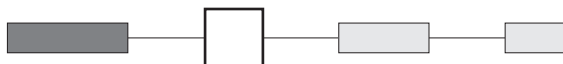
For THIN flying leads, replace F with W.

→ Flat



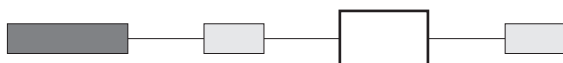
Wire colours (NC/NO) : black : NO, blue : NC

ACTUATOR COLOURS



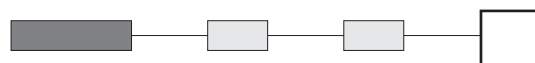
1 : blue - B : dark blue - 2 : black - 3 : green - 4 : grey - 5 : yellow - 6 : red - 7/1 : white - 8 : bright chrome
9 : orange - A : satin chrome

OPTIONS



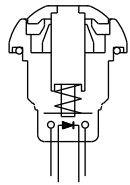
100 : Satin chrome bezel
101 : Bright chrome bezel

APPROVAL



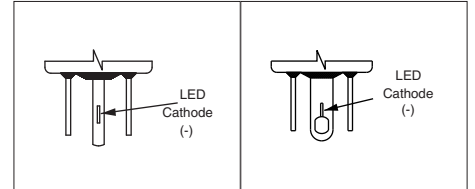
UL

Consult factory for details of approved models. To order switches marked UL, complete above box with "UL".

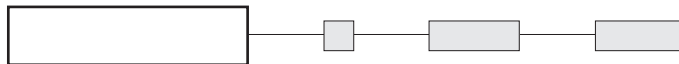


Function 3 (NO)

- High brightness illumination
- Five LED colours
- Tin plated LED terminals



MODEL STRUCTURE



Shown with standard flying lead terminals.

Solder lug terminals



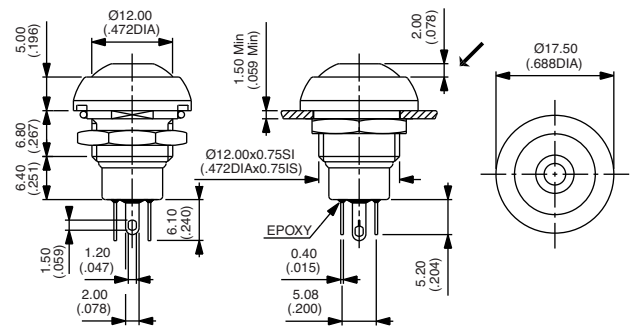
IPR3SAD



Normally Open

Also available with straight PC terminals : **IPR3PAD**
LED colour is indicated by the bottom of the switch.

→ Flat



Sealed flying lead terminals



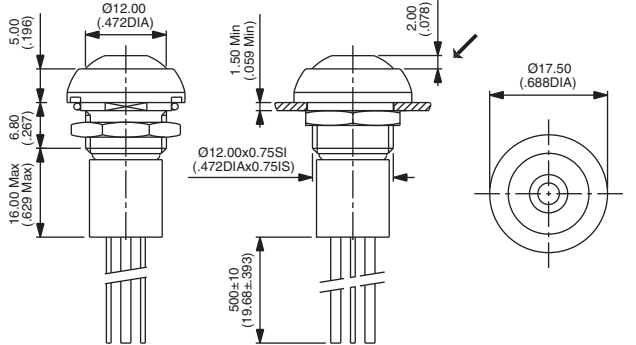
IPR3FAD



Normally Open

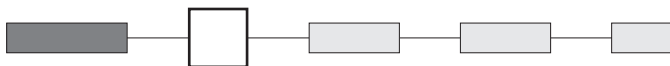
For THIN flying leads, replace F with W.

→ Flat



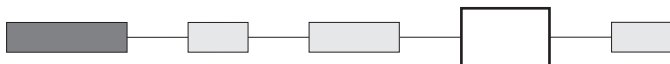
Wire colours : black : NO contact, red : LED anode(+), blue : LED cathode(-)

ACTUATOR COLOURS



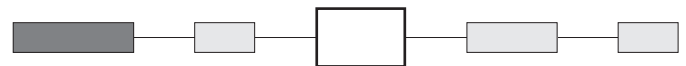
1 : blue - B : dark blue - 2 : black - 3 : green - 4 : grey
5 : yellow - 6 : red - 7/1 : white - 8 : bright chrome
9 : orange - A : satin chrome

OPTIONS



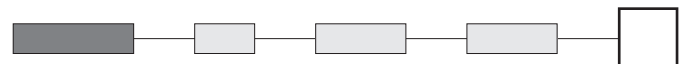
100 : Satin chrome bezel
101 : Bright chrome bezel

LED COLOURS



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

APPROVAL

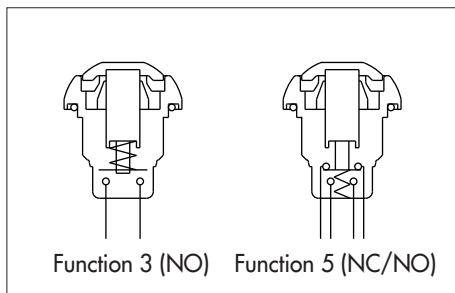


UL
Consult factory for details of approved models. To order switches marked UL, complete above box with "UL".

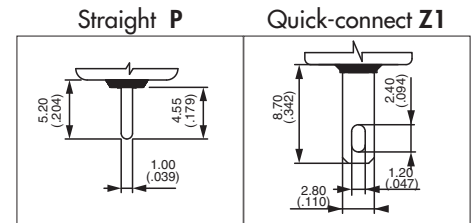
IP series

Pushbutton switches for harsh environments - bushing Ø 12 mm - momentary

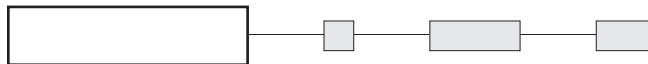
Round - non-illuminated



- Double function (NC/NO combined) with a short behind-panel depth



MODEL STRUCTURE



Shown with standard flying lead terminals.

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

Solder lug terminals

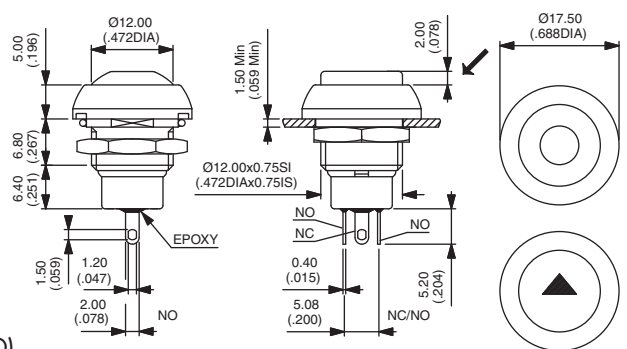


Curved actuator, NO
IPR3SAD
Curved actuator, NC/NO
IPR5SAD

Flat actuator, NO
IPP3SAD
Flat actuator, NC/NO
IPP5SAD



→ Flat



Also available with straight PC terminals : **IP•3PAD** (NO) or **IP•5PAD** (NC/NO) and quick-connect terminals : **IP•3Z1AD** (NO only)

Sealed flying lead terminals



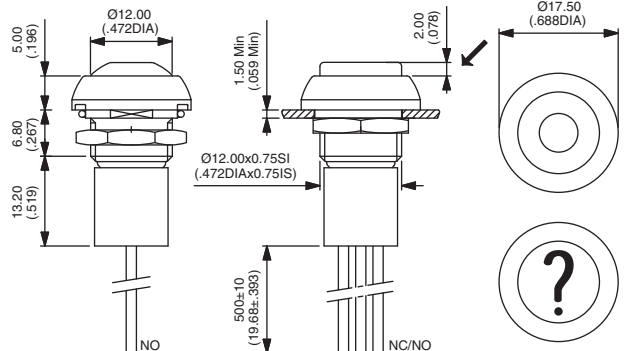
Curved actuator, NO
IPR3FAD
Curved actuator, NC/NO
IPR5FAD

Flat actuator, NO
IPP3FAD
Flat actuator, NC/NO
IPP5FAD



For THIN flying leads, replace F with W.

→ Flat



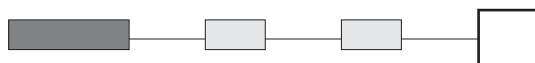
Wire colours (NC/NO) : black : NO, blue : NC

ACTUATOR COLOURS



1 : blue - B : dark blue - 2 : black - 3 : green - 4 : grey
5 : yellow - 6 : red - 7/1 : white - 8 : bright chrome
9 : orange - A : satin chrome

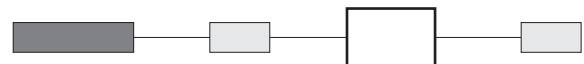
APPROVAL



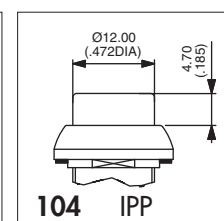
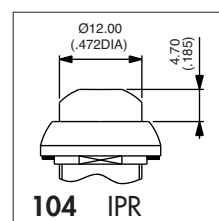
UL

Consult factory for details of approved models. To order switches marked UL, complete above box with "UL".

OPTIONS



100 : Satin chrome bezel
101 : Bright chrome bezel
104 : High actuator - If combined with function 5 (NC/NO), order with CD contacts (instead of AD contacts).



AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email amall@ameya360.com

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333

Email mkt@ameya360.com