SW-IG-2309

IG series

Pushbutton switches for joystick application
• bushing Ø 12 mm • momentary NO

DISTINCTIVE FEATURES

Last minute snappable plunger

Strong tactile feedback

Different voltages for LED backlight

ENVIRONMENTAL SPECIFICATIONS

• Operating and storage temperature: -40 °C to +85 °C (-40 °F to +185 °F)

• Front panel sealing:

- IP67 according to IEC 60529

- IP69K according to DIN 40050-9

• Salt spray: IEC60068-2-11 test Ka (96h)

ELECTRICAL SPECIFICATIONS

• Electrical function: Momentary

• Max. current/voltage rating with resistive load:

- Gold plated contact (0): 50 mA 28 VDC, 1,000,000 cycles

- Silver contact (1): 2 A 28 VDC, 100,000 cycles

• Dielectrical strength: 1500 Vrms between terminals

• Initial contact resistance: 100 mOhms max

• Insulation resistance: 1 Gohms at 500 VDC

GENERAL SPECIFICATIONS

• Total travel: 2 mm ± 0.4 mm

• Typical operating force: 9 N ± 2N

• Maximum applicable force: 50 N in all axes

• Hand soldering with lead-free alloy solder wire type SAC 305 (flux amount 2,2%): temperature 337-381°C. Standard application time is 3s.

• Mechanical life: 1,000,000 cycles

The company reserves the right to change specifications without notice.
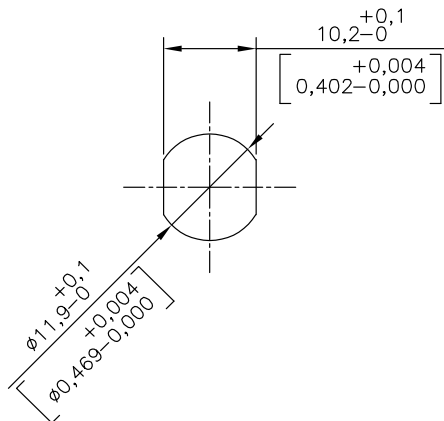
IG series

Pushbutton switches for joystick application
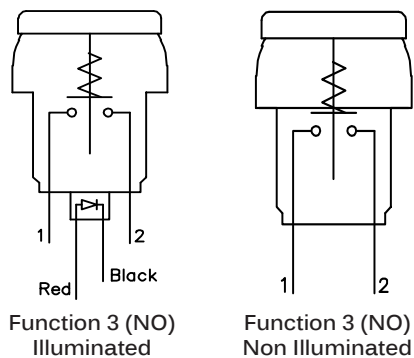• bushing Ø 12 mm • momentary NO

MATERIALS

• Case: Thermoplastic, UL94-V0

• Actuator: ABS UL94-Hb

• Bushing: Thermoplastic

• Membrane: fluorinated silicone, black

• Contacts:

- 0: brass, gold plated

- 1: silver

• Output wires: 15mm long 24AWG for LED version only

PANEL MOUNTING

• Panel thickness: 1.5 to 5.5 mm
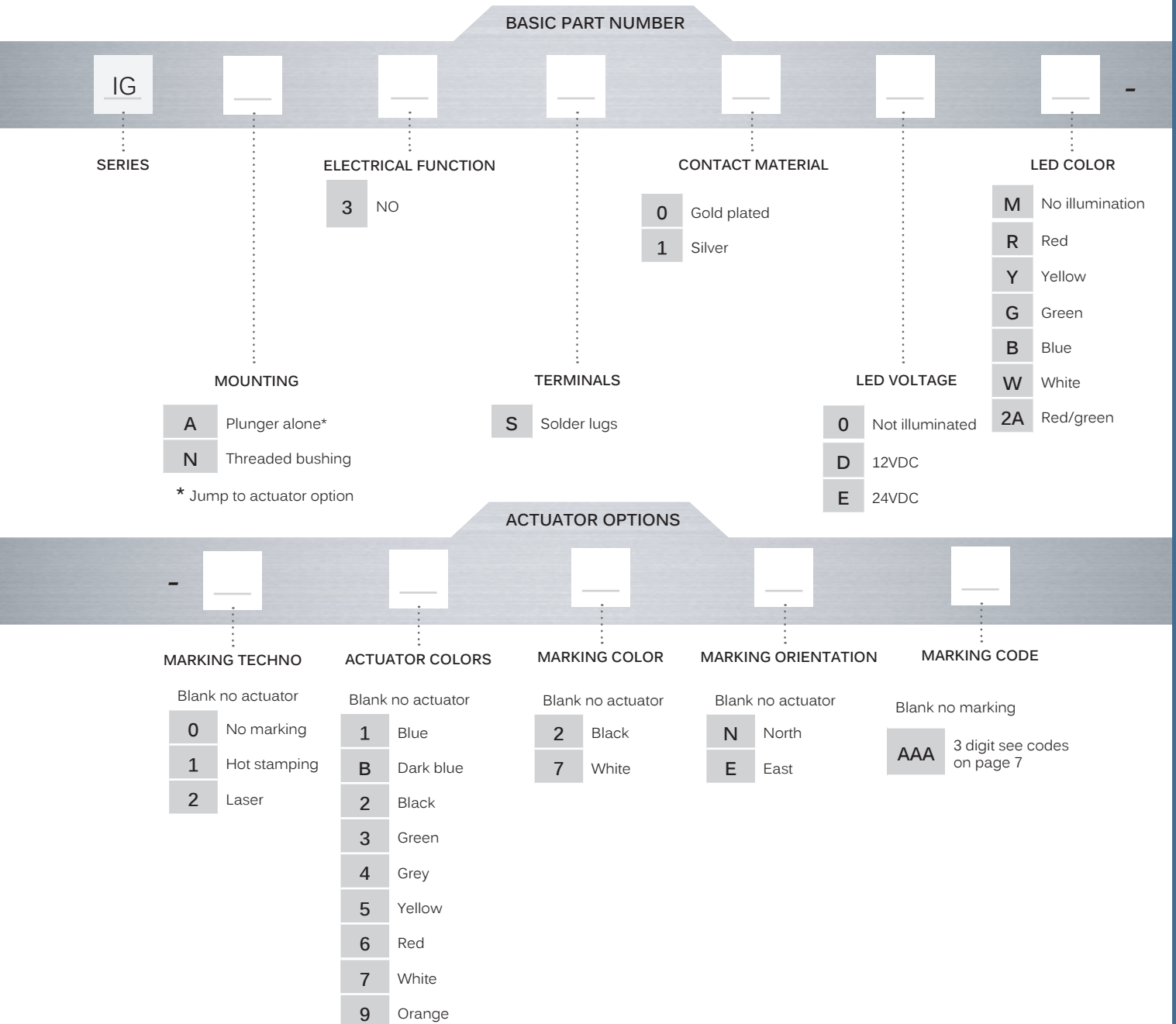
• Torque: 0.55 Nm applied to nut

• Panel cut-out:

$$10,2^{+0,1}_{-0}$$
$$\left[0,402^{+0,004}_{-0,000}\right]$$

$$\varnothing 11,9^{+0,1}_{-0}$$
$$\left[\varnothing 0,469^{+0,004}_{-0,000}\right]$$

ELECTRICAL DIAGRAMS

1   2
Red   Black

Function 3 (NO)
Illuminated

1   2

Function 3 (NO)
Non Illuminated

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BUILD YOUR PART NUMBER

BASIC PART NUMBER

| IG | ___ | ___ | ___ | ___ | ___ | ___ | - |

SERIES

ELECTRICAL FUNCTION

| 3 | NO |

CONTACT MATERIAL

| 0 | Gold plated |
| 1 | Silver |

LED COLOR

M	No illumination
R	Red
Y	Yellow
G	Green
B	Blue
W	White
2A	Red/green

MOUNTING

| A | Plunger alone* |
| N | Threaded bushing |

* Jump to actuator option

TERMINALS

| S | Solder lugs |

LED VOLTAGE

0	Not illuminated
D	12VDC
E	24VDC

ACTUATOR OPTIONS

| - | ___ | ___ | ___ | ___ | ___ |

MARKING TECHNO

Blank no actuator

0	No marking
1	Hot stamping
2	Laser

ACTUATOR COLORS

Blank no actuator

1	Blue
B	Dark blue
2	Black
3	Green
4	Grey
5	Yellow
6	Red
7	White
9	Orange

MARKING COLOR

Blank no actuator

| 2 | Black |
| 7 | White |

MARKING ORIENTATION

Blank no actuator

| N | North |
| E | East |

MARKING CODE

Blank no marking

| AAA | 3 digit see codes on page 7 |

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.

Mounting accessories: standard hardware supplied : U166 hex nut. Standard and special hardware is presented in the «Hardware» section of website.

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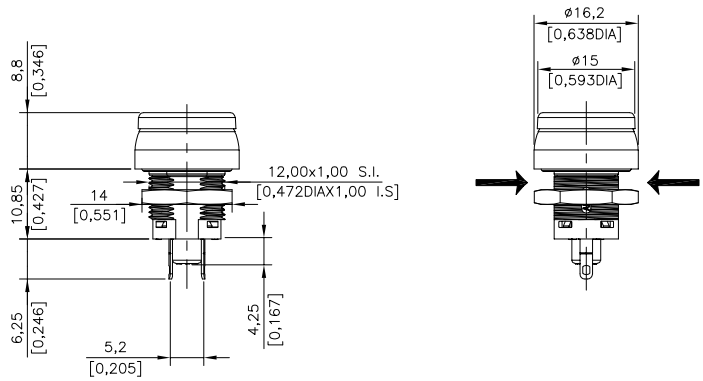• bushing Ø 12 mm • momentary NO

MODELS

SOLDER LUG TERMINALS NON-ILLUMINATED - NO
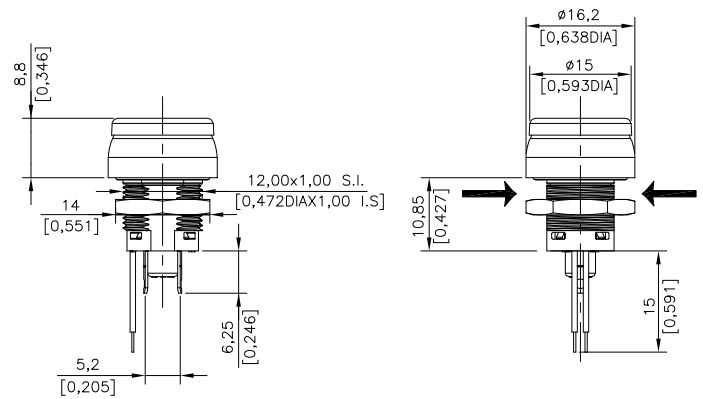
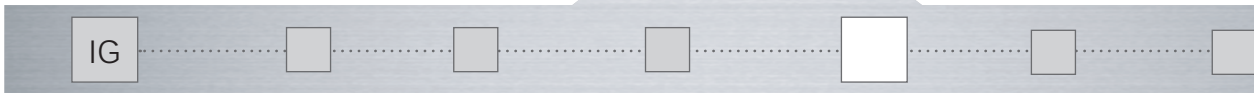IGN3S*0M

IGN3S00M-06

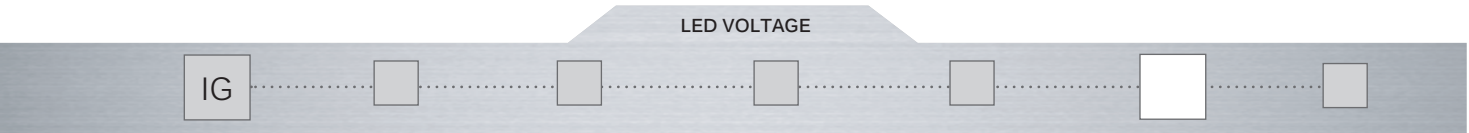SOLDER LUG TERMINALS ILLUMINATED - NO
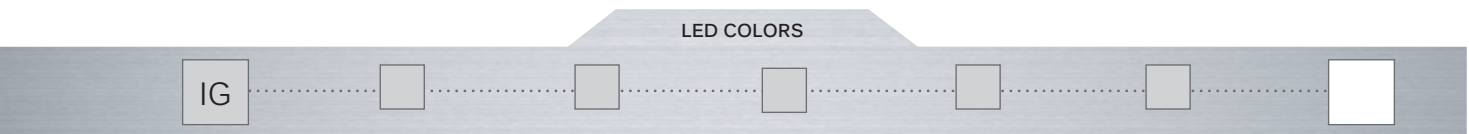
IGN3S

IGN3S0DB-227NXYU

CONTACT MATERIAL

IG

0   Brass, gold plated
1   Silver

APEM

IG series

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LED VOLTAGE

IG

0	Non illuminated
D	12VDC
E	24VDC

LED COLORS

IG

M	Non-illuminated
R	Red
Y	Yellow
G	Green
B	Blue
W	White
2A	Red/green

MARKING TECHNOLOGY

BASIC P/N

Blank	No actuator
0	No marking
1	Hot stamping
2	Laser

CAPS Can be ordered separately, begin part number with IGA and follow the codification guide from here.

ACTUATOR COLORS

BASIC P/N
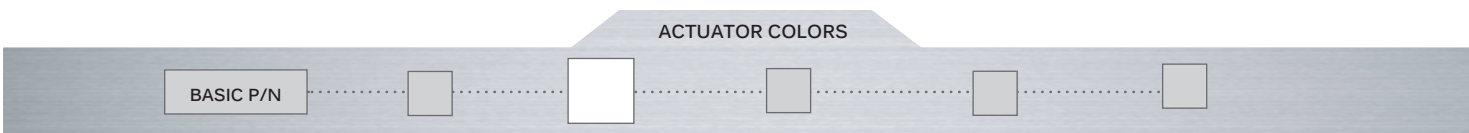
| Blank	No actuator
1	Blue
B	Dark blue
2	Black
3	Green
4	Grey
5	Yellow
6	Red
7	White
9	Orange

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MARKING COLOR

BASIC P/N

Blank   No actuator
2   Black
7   White

MARKING ORIENTATION

BASIC P/N
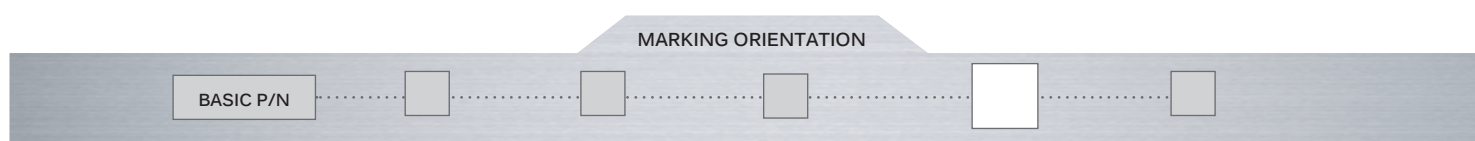
Blank   No marking
N   North
E   East
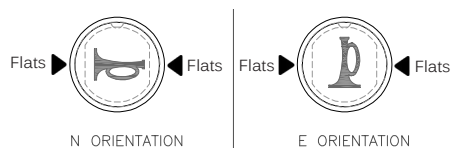
Flats ▶ ◀ Flats   Flats ▶ ◀ Flats

N ORIENTATION   E ORIENTATION

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ACTUATOR COLORS

BASIC P/N

Logo
Dimension

Ø9.00
illuminated area
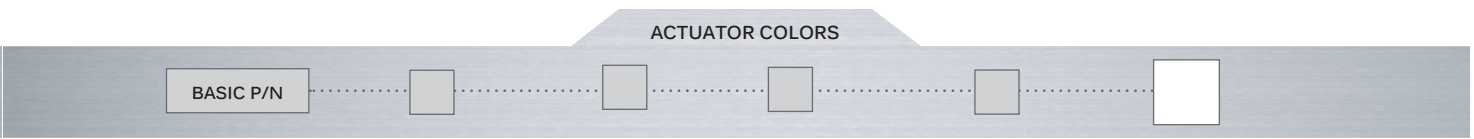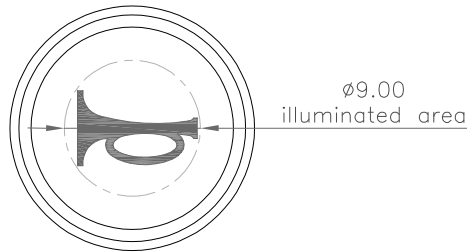
Most symbols meet the ISO 7000 standard "graphical symbols for use on equipment" (code given in bracket in the description).
Contact us for symbols not featured in the following table
Please note that all these symbols may not already exist as standard and could increase the lead time of the first order.

CODE	SYMBOL	DESCRIPTION
X41		Horn (0244)
X49		Differential lock (1662)
XAN		Loader bucket, float (1441)
XCD		Symbol 'Dot'
XKH		Illuminated ring
XYU		Symbol 'IDLE'
XN9		Symbol 'Power'