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Human Machine Interfaces

82-5551.1136 - Illuminated pushbutton 19 mm Aluminium, momentary

82-5551.1136 - Illuminated pushbutton 19 mm Aluminium, momentary 230VAC Green LED



Mounting

Mounting cut-out	Ø 19 mm
Design	flush

Front

Front dimension	Ø 22 mm
Front shape	round
Front ring shape	flush
Front bezel material	Aluminium

Other Attributes

LED Illumination

Operating voltage	230 V AC
Weight	0.018 kg
Operation current	1.3 mA

Operating-/Indication part

Lens optics	opaque
Lens material	Aluminium
Lens profile	flat
Lens illumination	illuminative
Lens colour	natural anodized

IP-Rating

Front protection	IP 67 / IK 10

Connection Method

Terminal	Solder 2.8 x 0.5 mm

Actuator

Switching action	Momentary

Switching element

Switching current	5 A Max. Thermal Ith2
Contact material	Silver
Contacts	1 C
Switching system	Snap-action switching element
Switching voltage	250 V AC
Typical switch rating	1A @24V, 0.5A @230VAC

Illumination

Illumination	Ring with green LED

Function

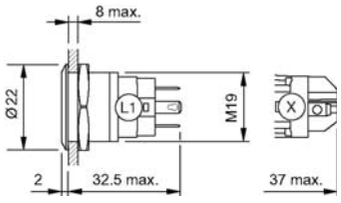
Illuminated pushbutton

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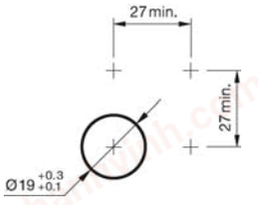
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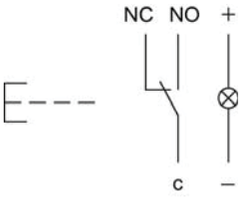
Dimensions



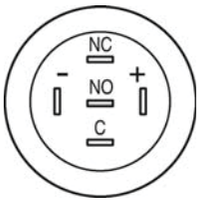
Mounting cut-outs



Wiring diagram



Component layout



Legend

Switching action: B = Momentary
Contacts: C = Changeover

Stand: 27.10.2014

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EAO – Your Expert Partner for **Human Machine Interfaces**

Series 82 | Vandal-Resistant Pushbutton



EAO, the expert partner for Human Machine Interfaces, offers a range of attractive, vandal-resistant pushbuttons for applications in harsh environments. With their robust metal housings, these innovatively designed switches are protected to IK10 impact resistance and IP67 sealing requirements which makes them ideal for use in exposed public areas as well as other aggressive environments. The switches are available with momentary or maintained action, and with a choice of central dot or ring illumination.

Main features

- Vandal resistance: Impact resistant to IK10, sealed to IP67 standard
- Long service life: > one million cycles of operation
- Optional illumination with daylight readable LEDs
- Metal housing with attractive design
- Excellent tactile switching action

Typical applications

- Access control, security systems
- Exposed public areas: Ticketing machines, vending machines, public kiosks
- Industrial: Machinery and factory equipment
- Lifting and Moving: Elevators and people movers

Mounting cut-out

Ø16 mm, Ø19 mm, Ø22 mm

Materials

- Stainless steel SUS 304
- Stainless steel chrome coloured
- Brass gold coloured
- Aluminium (natural anodised), other colours on request

Switching system

Switching element	Snap-action switching element
Contact arrangement	NO/NC (changeover)
Switching action	Momentary or maintained
Contact material	Silver alloy

Mechanical properties

Mechanical lifetime	> 1 million cycles of operation
Actuation force	4 … 7 N
Terminals	Soldering / plug-in terminals 2.8 x 0.5 mm Screw terminal

Electrical properties

Rated insulation voltage	250 VAC
Conventional thermal current	5 A
Electrical life	> 50 000 cycles (full load)
Service category	AC-15 (cosφ0.3) and DC-13 (according to IEC 60947-5-1)

	24 V	110 V	220 V	240 V
AC	1 A	1 A		0.5 A
DC	0.7 A	0.2 A	0.1 A	

Switching element

Contact resistance	≤ 50 mΩ, according to IEC 60512-2
Isolation resistance	> 1000 MΩ, according to IEC 60512-3
Dielectric strength	1500 VAC, according to IEC 60947-5

Environmental conditions

Storage temperature	–40 °C ... +80 °C
Operating temperature	–30 °C ... +70 °C
Operating humidity	45 % ... 85 % RH (no condensation)
Front protection	IP65, IP67, according to IEC60529
Impact resistance	IK10, according to IEC 62262
Approvals	CE, CB, UL, C UL, CCC

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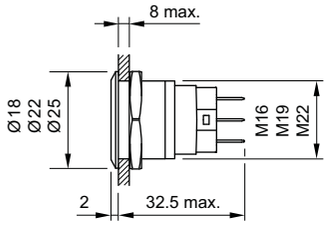
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Series 82 | Vandal-Resistant Pushbutton

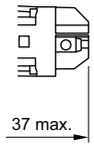
Dimensions

Side view

Solder/plug-in terminal

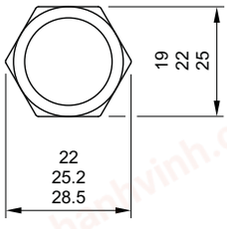


Screw terminal

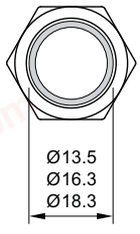


Front view

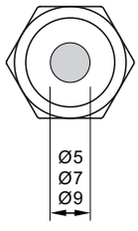
Non-illuminated



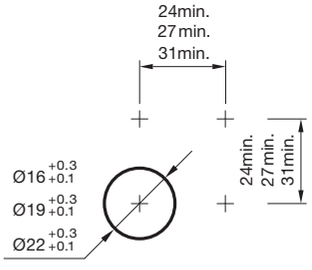
Ring illuminated



Central dot illuminated



Mounting cut-outs

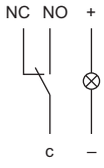


Wiring diagram

Pushbutton



Illuminated pushbutton



Indicator



Terminals

Solder/plug-in terminal

Pushbutton



Illuminated pushbutton

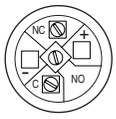


Indicator



Screw terminal

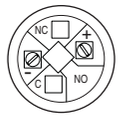
Pushbutton



Illuminated pushbutton

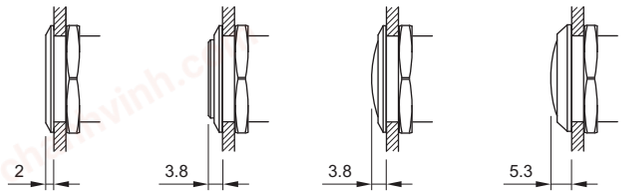


Indicator



Bezel profile/Lens profile/Illumination

flush/flat ring, dot	raised/flat ring	flush/convex ring	raised/convex –



LED illumination

- Red
- Green
- Yellow
- Blue
- White

LED, series resistor and polarity protection are built in.

Voltage	Tolerance	Current	Consumption
6 VAC/DC	±10 %	15 mA	0.1 W
12 V AC/DC	±10 %	14 mA	0.17 W
24 V AC/DC	±10 %	10 mA	0.24 W
110 VAC	±10 %	2 mA	0.22 W
230 VAC	±10 %	1.3 mA	0.29 W

EAO reserves the right to change specifications without further notice.

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