

Series

61

Emergency stop switch compact

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Compact, robust, reliable. *EAO offers intuitive safety controls for a wide variety of applications: the UL-certified, robust and IP69K sealed Series 61 emergency stop switch compact (E-Stop).*

EAO, the expert partner for innovative, intuitive and reliable Human Machine Interfaces (HMIs), offers critical safety controls which are uniquely compact, robust and reliable. The Series 61 compact emergency stop switch is especially suited for handheld control units, or can be mounted, within easy reach or directly onto a machine. The switch reliably protects people and equipment against injury and damage.

Control panel design for equipment, devices and machinery provides many challenges to manufacturers. They need to produce easy to use, intuitive controls that are both compact and also capable of withstanding harsh industrial use. Depending on the application, they may need to protect the controls from attack by chemicals, from dirt ingress or cleaning by high pressure water jets.

The Series 61 E-Stop compact satisfies the needs of use, through rigorous material selection and a robust build quality that meets IP69K, the highest degree of protection against dirt and dust ingress.

The product complies with the latest international standards. The robust mono-block design has a fool proof, trigger action mechanism to break the electrical contacts, and a green indication ring to show whether the switch is actuated. Here, the mechanically decoupled triggering of the switching elements should be highlighted in particular. The optional high brightness central LED makes the product clearly visible, even in low light levels.

Each switch can have up to three individual normally open (NO) or normally closed (NC) switch contacts, a 27 mm or 40 mm diameter lens and optional 24VDC LED illumination – all within a compact 21.2mm back panel depth.

In short, the Series 61 E-Stop compact is a robust, reliable, low back panel depth switch – ideal for use in space critical applications.

Typical applications

- Handheld control units
- Production and plant machinery
- Construction machinery
- Agricultural machinery and vehicles
- Special vehicles

Materials

The materials used comply with the high EAO standards relating to quality, functional safety, lifetime and ergonomic design. They are resistant to cleaning agents and also to UV radiation.

Mechanical characteristics

- Tightening torque for fixing nut max. 0.8Nm
- Actuating force 30N ± 4 N
- Mounting cut-out 16.2mm
- Terminal: Plug-in terminal 2.8mm x 0.5mm (solderable, without UL-certification)
- Mechanical/electrical service life ≥ 20000 switching cycles

Electrical characteristics

- Rated operating voltage U_n 50VAC/DC
- Switched current max. 0.2A
- Minimum operating data
 - Voltage 1VAC/DC
 - Current 1mA

Ambient conditions

- Temperatures
 - Storage temperature –40°C to +85°C
 - Operating temperature –25°C to +55°C
- Shock resistance (semi-sinusoidal)
max. 150m/s², pulse width 11ms, 3-axis
- Vibration resistance (sinusoidal)
max. 100m/s², at 10Hz to 500Hz, 20 cycles, 3-axis
- Climate resistance
 - Humid heat, state, 56 days, +40°C/93% relative humidity
 - Dry heat, 96 hours, +55°C
 - Cold, 96 hours, –25°C

Degree of protection

- IP69K and IP67 front side
- IP40 rear side

Advantages.

- Very low back panel depth (21.2 mm)
- High front protection IP69K and IP67
- Robust mono-block design with mechanically decoupled triggering
- Optional illumination
- Up to three switching elements

Colours

- Lens: red
- Actuator housing: yellow
- Position indication ring: green
- Illumination: red

Declarations of conformity

- CE
- EN 60947-1
- EN 60947-5-1
- EN 60947-5-5

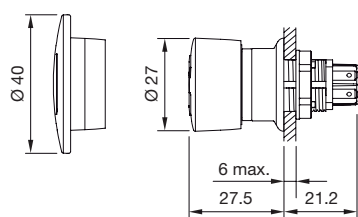
Approvals

- CB (EN 60947)
- UL NISD Listed (E341760)

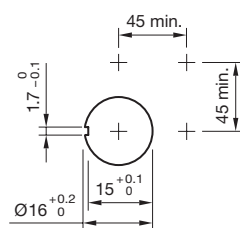
Mounting

The E-Stop is front panel mounted with a rear mounted anti-rotation ring and a threaded fixing nut. In addition, it is also prevented from rotating by the anti-rotation lug in the mounting cut-out. The panel mounting is easy to perform without special tools. The electrical connections are made via the UL-specified, partially insulated plug-in terminal connections on the rear contact block.

Dimensions



Mounting cut-out



All dimensions in mm.

Variants

- Front dimensions Ø 27 mm, with illumination, max. two switching elements



- Front dimensions Ø 27 mm, without illumination, max. three switching elements



- Front dimensions Ø 40 mm, without illumination, max. three switching elements



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