

Series

61

Emergency stop switch compact

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Compact, robust, reliable. *EAO offers intuitive, safety controls for machinery: The compact Series 61 emergency stop switch (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 - perfect for mechanical engineering. The Series 61 compact emergency stop switch is especially suited for handheld control units. Installed directly into a machine, the switch reliably protects people and equipment against injury and damage.

Machinery control panels provide many new challenges for manufacturers, not only to make operability simple and intuitive but to ensure systems are compact and capable of withstanding harsh industrial use. Other important factors include environmental sealing against dirt ingress as well as resistance to cleaning with aggressive detergents and high-pressure jets.

The compact E-Stop Series 61 switch satisfies industrial requirements through the material properties and extremely robust build. Sealed to IP69K, the innovative design fully protects against water and dust ingress.

The product complies with current and known future standard requirements pertaining to illumination visibility and optimised usability through improved mechanics. In addition, requirements according to ISO EN 13850 are met.

Choose your switch functions according your individual needs. Thereby you can connect the E-Stop with up to three switching elements.

In brief, the Series 61 compact emergency stop switch is a robust and reliable safety control with a very low back panel depth and improved energy efficiency – a perfect fit for machinery.

Typical applications

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

Materials

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

Mechanical characteristics

- Tightening torque for fixing nut max. 100Ncm
- Actuating force 30N ±4 N
- Terminal: Solder/plug-in 2.8 x 0.5 mm
- Mechanical service life ≥20 000 switching cycles

Electrical characteristics

- Rated operating voltage Ue 50VAC/DC
- Electrical service life ≥20 000 switching cycles
- Minimum operating voltage
 - 1 VAC/DC
 - Current 1 mA

Ambient conditions

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

Protection

- IP69K and IP67 front

Advantages.

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

Colours

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

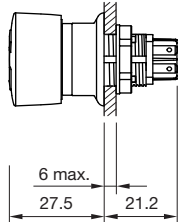
Standards and directives

- CE
- EN 60947-5-1
- EN 60947-5-5
- DIN EN ISO 13850
- EN IEC 60204

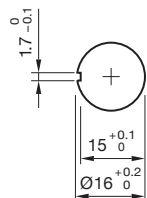
Mounting

The E-Stop is front mounted using a fixing nut. It is 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 connection is established via plug-in terminals or by soldering.

Dimensions



Mounting cut-outs



Variants

- With illumination, max. two switching elements



- Without illumination, max. three switching elements



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