

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

- IP66, IP67 and IP69K front side
- IP40 rear side

Advantages.

- Very low back panel depth (21.2 mm)
- High front protections IP66, IP67 and IP69K
- 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

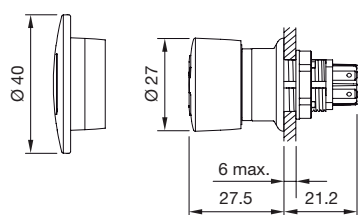
Approvals

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

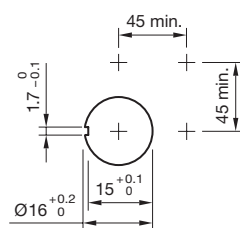
Mounting

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



EAO Contact.

Your centre of excellence.

Headquarters

EAO Holding AG
Tannwaldstrasse 88
CH-4600 Olten
Telephone +41 62 286 92 00
info@eao.com

Manufacturing Companies

Switzerland
EAO AG
Tannwaldstrasse 88
CH-4600 Olten
Telephone +41 62 286 91 11
info@eao.com

EAO Systems AG
Tannwaldstrasse 88
CH-4600 Olten
Telephone +41 62 286 91 11
sales.esy@eao.com

China
EAO (Guangzhou) Ltd.
3/F, Block G4, South China
New Materials Innovation Park
31 Kefeng Road
Guangzhou Science City
CN-Guangzhou, PRC
Telephone +86 20 3229 0390
sales.ecn@eao.com

Germany
EAO Automotive GmbH & Co. KG
Richard-Wagner-Straße 3
DE-08209 Auerbach/Vogtland
Telephone +49 3744 8264 0
sales.esa@eao.com

North America
EAO Corporation
One Parrott Drive
Shelton
US-CT 06484
Telephone +1 203 951 4600
sales.eus@eao.com

Sales Companies

China
EAO (Guangzhou) Ltd.
3/F, Block G4, South China
New Materials Innovation Park
31 Kefeng Road
Guangzhou Science City
CN-Guangzhou, PRC
Telephone +86 20 3229 0390
sales.ecn@eao.com

EAO (Shanghai) Office
Rm. 403, Block 5#
CIFI Century Square, Lane 28
NO. 21, Danba Road
Putuo District
CN-Shanghai, PRC
Telephone +86 21 6095 0717
sales.ecn@eao.com

France
EAO France SAS
5, rue Henri François
FR-77330 Ozoir-la-Ferrière
Telephone +33 1 64 43 37 37
sales.efr@eao.com

**Germany, Austria,
Poland, Czech Republic**
EAO GmbH
Langenberger Straße 570
DE-45277 Essen
Telephone +49 201 8587 0
sales.ede@eao.com

Hong Kong (Asia Pacific)
EAO (Far East) Ltd.
Unit A1, 1/F, Block A
Tin On Industrial Building
777 Cheung Sha Wan Road
Lai Chi Kok, Kln
HK-Hong Kong
Telephone +852 27 86 91 41
sales.ehk@eao.com

Italy
EAO Italia S.r.l.
Centro Direzionale Summit –
Palazzo D1
Via Brescia 28
IT-20063 Cernusco sul Naviglio (MI)
Telephone +39 02 92 471934
sales.eit@eao.com

Japan
EAO Japan Co. Ltd.
Net 1 Mita Bldg. 3F
3-1-4 Mita Minato-ku
JP-Tokyo 108-0073
Telephone +81 3 5444 5411
sales.ejp@eao.com

Netherlands, Belgium
EAO Benelux B.V.
Kamerlingh Onnesweg 46
NL-3316 GL Dordrecht
Telephone +31 78 653 17 00
sales.enl@eao.com

North America
EAO Corporation
One Parrott Drive
Shelton
US-CT 06484
Telephone +1 203 951 4600
sales.eus@eao.com

Switzerland
EAO Schweiz AG
Tannwaldstrasse 86
CH-4600 Olten
Telephone +41 62 286 95 00
sales.ech@eao.com

**United Kingdom, Finland,
Ireland, Norway, Sweden**
EAO Ltd.
Highland House
Albert Drive
Burgess Hill
GB-West Sussex RH15 9TN
Telephone +44 1444 236 000
sales.euk@eao.com