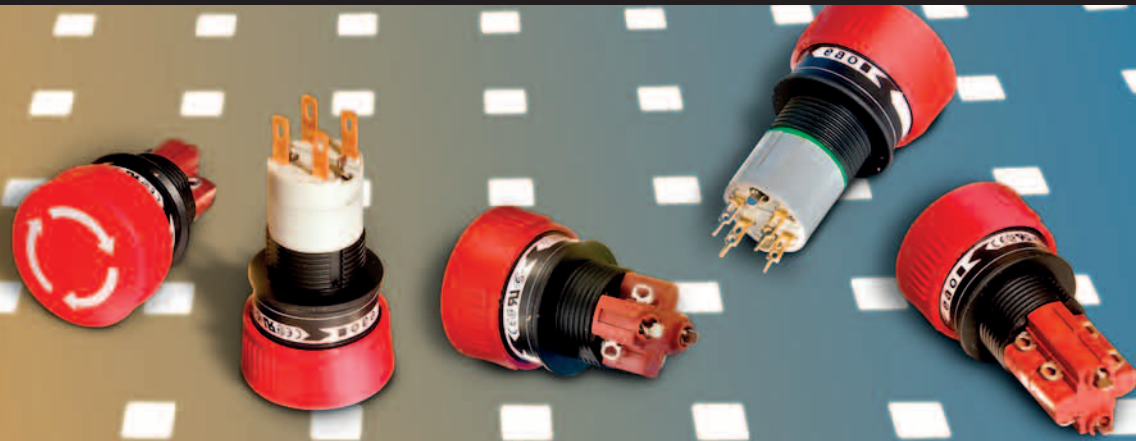


## Stop Switch, Series 51



EAO – the expert partner for Human Machine Interfaces – has launched a new compact stop switch with an ultra-low, less than 19mm back panel depth. The new Series 51 Stop Switch utilises a mono block design with an integrated switching element to set a new space-saving standard for industry.

The mono block design minimises the back panel depth and offers an extremely rugged construction that protects the switch from damage caused by heavy-handed use, or operator abuse. The ground-breaking design has been tested beyond 100,000 actuations, so it's a genuine fit-and-forget product.

### Main features

- Back panel depth of only 18.8mm, with solder terminal version S16
- Choice of connection methods: solder, plug-in or PCB mount
- Visible actuation status
- Attractive and ergonomic design
- Protected to IP65 from the front

### Mounting

16 mm Ø mounting hole

### Typical applications

This compact, cost effective switch is suitable for equipment that requires a reliable, rugged and attractive stop switch for non-hazardous applications including:

- Medical diagnostic equipment
- Hand held terminals
- Machine and process controls
- Instrumentation
- Supermarket check-outs
- Disabled lifts

### Switching system

- Switching element with solder connection
  - Self-cleaning, double-break snap-action switching system
  - 1 NC contact and 1 NO contact per switching element
  - Available with up to two switching elements (2 NC contact and 2 NO contact)
- Switching element with 2.8mm plug-in/solder connection
  - Self-cleaning, double-break snap-action switching system. (1 NC contact and 1 NO contact)
- Low signal level switching element with 2.0mm plug-in, solder or PCB mount connection.
  - Single-break momentary contact switch system. Two contacts per switching element with a combination of NC and NO contacts

### Material

Actuator housing	Polyamide (PA66), Thermoplastic elastomer (TPE)
Lens	Polyamide (PA6)
Actuator	Polybutylene Terephthalate (PBT)
Label	R-640 polyester

### Switching element

Solder connection:	Polyamide (PA 6.6)
Plug-in/solder connection:	Diallyl Phthalate (DAP), Polyamide (PA), Polysulfone (PSU)
Plug-in/solder/PCB connection:	Polysulfone (PSU)

### Contact material

Snap action solder connection:	gold-plated silver
Snap action plug-in/solder connection:	gold-plated silver
Low level plug-in/solder/PCB connection:	gold-plated

**Mechanical properties**

- Connections
  - Solder or solder/plug connection, 2.8×0.5 mm
  - Universal connection with 2.0×0.5 mm plug-in/solder and PCB connection
- Actuating force: 4 ... 6 N (depending on the switching element)
- Mechanical lifetime: 100,000 switching cycles

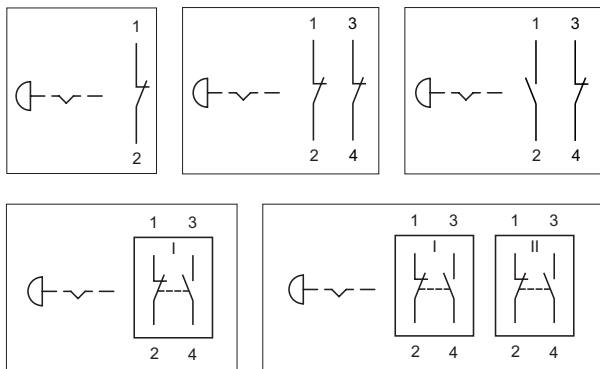
**Electrical properties**

Solder element:	min. 5 VAC/DC, 1 mA max. 250 VAC/DC, 5 A
Plug-in/solder element:	min. 5 VAC/DC, 1 mA max. 250 VAC/DC, 5 A
Plug-in/solder/PCB element:	min. 100 µV/10 µA max. 42 VAC/DC, 100 mA

**Environmental conditions**

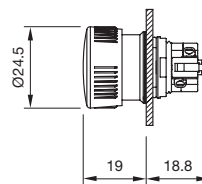
- Temperature:
  - Storage temperature: –40 °C ... +85 °C
  - Operating temperature: –25 °C ... +55 °C
- Degree of front protection: IP65
- Approvals: UL/CSA pending, CB, ENEC (EN 61058-1)
- Declaration of conformity: CE

**Wiring Diagrams**

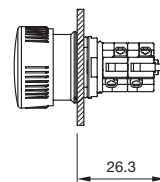


**Versions**

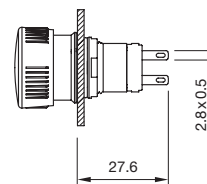
Solder connection



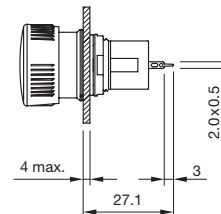
Solder connection



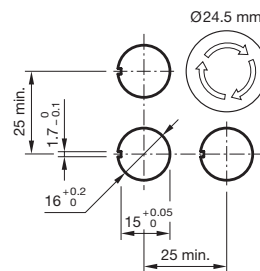
Plug-in/solder connection



Plug-in/solder/PCB connection



**Drilling pattern**



3D product drawings are available in a range of formats to download from our website [www.eao.com](http://www.eao.com)