

SCHMERSAL Tech Briefs: Emergency Stop Buttons



BDF100-NH-G-ST



BDF100-NHK-G-ST



E-STOP 201



ESTOP-MBGAC311



E-STOP KIT

Available Literature



Command and Signaling Devices
94 pages, print or PDF



Whitepaper:
Emergency Stop Devices
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Overview

According to OSHA, ANSI and relevant ISO regulations every machine is required to have a means to immediately remove all hazardous energy in the event of an emergency. In most all industrial machines this is achieved by the use of an Emergency Stop (E-Stop) pushbutton.

NFPA79 and ISO 13850 detail the physical characteristics of a push button E-Stop, which will include a RED mushroom operator head with YELLOW background. It must also be self-latching, meaning that once actuated the Emergency Stop will remain in the actuated state until a voluntary and deliberate action is performed, such as twisting and/or pulling of the palm button for reset. In addition, this resetting of the E-Stop alone should not resume operation; instead a second deliberate action is needed, such as the pressing of a RESET button.

OSHA and standards such as IEC 60204-1 state that an Emergency Stop must be readily accessible to the operator. This means that every operator station or any area of the machine worked on which is considered part of the normal operating procedure needs a means for an emergency stop. It should be unobstructed and easily accessible without having to reach over, under or around to actuate.

Complete E-STOP KIT

The E-STOP KIT includes all the components necessary for a panel-mounted emergency stop pushbutton. They are delivered in a single box.

It includes:

- A 40 mm diameter aluminum operator head with mounting block.
- Two 1 NO & 1 NC contact blocks.
- A spring element for latching and reset function.
- A round yellow metal plate with adhesive on the back.



IP69K Rated E-Stop

Schmersal offers an E-Stop pushbutton that meets IP69K sealing requirements ... tolerating high temperature (up to 175°F) steam or water wash downs at pressures up to 1450 psi. The NDRR50RT offers a 50 mm wide, thermoplastic head and modular contact block system.

This E-Stop is ideal for applications where hygienic conditions are critical (food processing, medical equipment, meat packaging and pharmaceutical manufacturing). It was specifically designed with smooth surfaces to reduce the accumulation of process substances, dirt and/or bacteria.



Various Models

Schmersal offers a number of complete E-Stop pushbutton kits that satisfy all relevant requirements. They include the operator, contact blocks, and enclosure.

BDF100-NH-G-ST

E-Stop without protective collar

BDF100-NHK-G-ST

E-Stop with protective collar

E-STOP201

Plastic pushbutton in plastic enclosure (pre-assembled)

ADRR40RT 40mm button

CLP101 1NC contact (x2)

MBKAC311YE Enclosure

Additional contact blocks available:

CLP101 1NC contact

CLP110 1NO contact

E-STOP-MBGAC311

Metal pushbutton in metal enclosure (kit)

EDRR50RT 50mm button

EF220.1 2NC contact

EFR Spring element

MBGAC311YE Enclosure

Additional contact blocks available:

EF20.2 2NC

EF303.2 1NO/1NC

E-STOP KIT

Metal pushbutton for panel mounting (kit)

EDRR40RT 40mm button

EF303.1 1NO/1NC contact

EF303.2 1NO/1NC contact

EFR Spring Element

MDP8.2 Yellow plate

Compatible Safety Controllers

SRB-E-201LC **SRB-E-322ST**

SRB-E-201ST **SRB-E-402ST**

SRB-E-301ST **SRB-301MC**

SRB-E-212ST

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