

SCHMERSAL Tech Briefs:

Two Hand Controls



Features



The hood over the hand controls prevents actuation from behind



Centrally located E-Stop button



Several styles of hand buttons and E-Stops are available, in plastic or metal

Overview

Two-hand control panels in combination with an anti-tie down monitoring device are designed such that an operator require both hands at the same time to start a hazardous movement. This forces operators to keep their hands on the two-hand control actuator elements and out of the danger zone while the system is carrying out the hazardous movement.

The main areas of application for two-hand controls are presses and stamping units in the metal processing or powder metallurgy industries as well as similar machines and systems that involve manual insertion and removal of material. These include printing and paper processing machines, rubber and plastics processing machines, machines involved in the chemical industry and assembly plants.

The SEPK version has a 2 piece plastic housing while the SEPG version is a metal housing with extended wrist support. Both versions are fitted with an Emergency Stop button that complies with EN ISO 13850.

They are also designed with guard hoods over the actuator elements, which prevent people from circumventing the protection function using just one hand, elbows, stomach, hips, thighs or knees. It is also not possible to operate from the back of the control panels.

Each palm button and E-Stop has a 1 NO & 1 NC positive break safety contact to be monitored within a safety system.

To complete the two-hand control safety function operation, Schmersal offers anti-tie down monitoring devices to ensure that both actuator elements are pressed within 500ms of each other and that both are depressed before being actuated again for the next cycle, as defined by ISO 13851.

Additional controls

The center console between the two hand controls can be fitted with up to eight other machine controls such as pushbuttons, joysticks, or indicator lights.



Applications

- Food processing machinery
- Pharmaceutical machinery
- Medical applications
- Outdoor equipment
- Chemical processing equipment
- Painting systems
- Semiconductor manufacturing



Mounting stands are available in several designs.

Available Literature



Command and Signaling Devices

Ordering Details

Plastic Housing

SEPK^①

① 02.0.4.022/95

| | |
|-----------|-----------------------|
| ADP55.3SW | 55 mm plastic buttons |
| ADRR40RT | 40 mm plastic E-Stop |

02.0.4.022/95.E2

| | |
|---------------|-----------------------|
| ADP55.3SW/O.F | 55 mm plastic buttons |
| ADRR40RT | 40 mm plastic E-Stop |

02.0.L.22

Empty housing

Metal housing

SEPG^①

① 05.3.3.0.22/95

| | |
|----------|---------------------|
| EDP42SW | 42 mm metal buttons |
| EDRR40RT | 40 mm metal E-Stop |

05.2.2.0.22/95

| | |
|----------|---------------------|
| EDP42SW | 42 mm metal buttons |
| EDRR50RT | 50 mm metal E-Stop |

05.3.4.0.22/95

| | |
|----------|---------------------|
| EDP55SW | 55 mm metal buttons |
| EDRR40RT | 40 mm metal E-Stop |

05.3.1.0.22/95

| | |
|----------|---------------------|
| EDP55SW | 55 mm metal buttons |
| EDRR50RT | 50 mm metal E-Stop |

05.3.4.0.22/95.E1

| | |
|-----------|-----------------------|
| ADP55.3SW | 55 mm plastic buttons |
| EDRR40RT | 40 mm metal E-Stop |

05.3.L.22

Empty housing

Accessories

Safety Controllers

SRB-E-201ST
SRB-E-402ST
SRB301-HC/R
SRB200-ZHX1
SRB201-ZH
SRB201-ZHX3

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