Press Release

28/2/2025

ESC-SFT Handles with Built-in Safety Switch: Enhancing Protection Safety for Staff and Machinery

The new Elesa handles with built-in safety switch are designed to provide superior protection for staff and ensure the safe operation of machinery.

Features and Applications

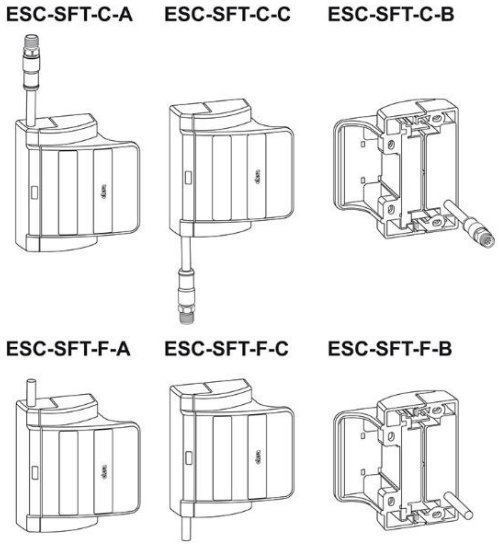
The ESC-SFT handle is a state-of-the-art coded sensor with redundant channels, ideal for use in safety circuits that monitor the status of guards on machinery. In combination with a certified control logic, the handle activates, in the event of accidental opening of doors, casings, or protective covers, the interruption of the machinery's power circuit, ensuring immediate safety.

Functioning

The safety system is composed of a control unit and a handle, which operates in specific configurations. The handle contains reed contacts activated by coded magnets, while the safety control unit converts this information and communicates the state of protections to the control system via a safety output. The safe state is defined when the handle is away from its activation magnet.

Main advantages

- **Staff Protection**: The handle incorporates a magnetic sensor and a coded magnet actuator, ensuring reliable switching of contacts and closure of safety outputs. A green LED indicator confirms when the handle is securely closed.
- **Compliance**: Classified as a low coding level type 4 magnetic interlock device in accordance with EN14119, the ESC-SFT handle supports system architectures up to SIL3 (IEC 62061) or category 4 - PLe (EN ISO 13849-1).
- **Snap Lock**: The mechanical coupling system keeps doors securely closed, requiring an opening force of approximately 2 kg.
- **Self-Centring**: The handle's mechanical self-centring system compensates for door misalignment or bending, making it suitable for both sliding and swing doors.



Standard executions

Press Box

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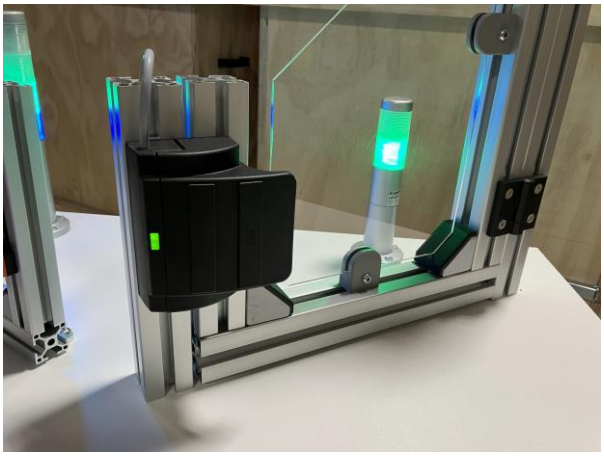
STANDARD MACHINE ELEMENTS WORLDWIDE

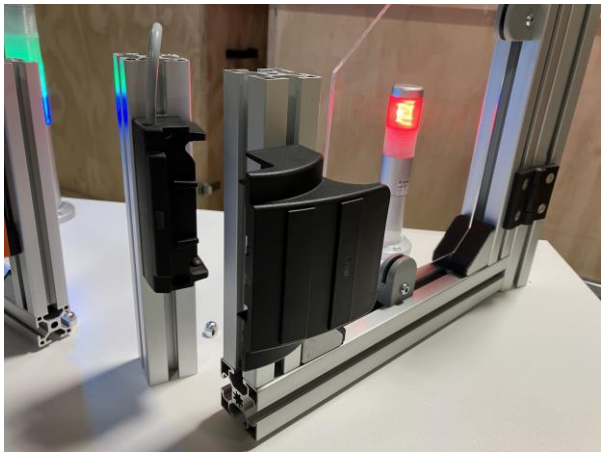
CN-SFT Safety Control Unit

The CN-SFT safety control unit is designed for category 3 and 4, able of monitoring the status of two contacts (safety Reed magnetic sensors, emergency buttons, mechanical safety switches, safety interlocks for mobile guards). The unit activates the output by pressing and releasing the START button (reset) only under specific conditions, ensuring a safe situation by maintaining open safe outputs even after contact switching.

The control unit can be used also with CFSW and CFSQ hinges or M.2000-SWM handles.



Door closed



Door open

1941 – 2025

Serving industry for over 80 years

Elesa designs and produces the widest range of standard components for industrial machines and equipment: handwheels, clamping handles and levers, adjustable levers, clamping elements, knobs, position indicators, indexing and spring plungers, levelling feet, hinges, tubes connectors, latches, accessories for hydraulic systems, modular roller tracks, castors and wheels, magnets, vibration mounts and vacuum components. Made with the most advanced technopolymers and metals, highly efficient and reliable, ergonomic and innovative design, Elesa brand products are used in the most diverse areas of application in the sector of industrial mechanics. The constant commitment to R&D is combined with a strongly customer-centric service. Founded in 1941 with headquarters in Monza and 15 subsidiaries abroad, Elesa exports its products to more than 60 countries worldwide.

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