



ONE FITS ALL

EN

CTS SAFETY SWITCH

EUCHNER
More than safety.

ONE FITS ALL!

High locking force in a compact design: The CTS safety switch offers maximum flexibility and makes the perfect addition to the EUCHNER portfolio. The CTS is ideal for applications where a high locking force is required and limited installation space is available. The actuator of the CTS is mounted on a floating bearing, and this gives the switch a high level of tolerance even on large doors. The CTS can also be used in a wide variety of connection designs. A range of options is available from a direct connection to the control system through to a connection via a decentralized fieldbus module.

THE CTS SAFETY SWITCH

A high locking force in a small package

The compact switch dimensions (135 x 31 x 31 mm) and the high locking force of 3,800 N (F_{zh}) allow the CTS to be used almost anywhere. The versatile CTS can be mounted in three directions on both hinged and sliding doors. The actuator, which is mounted on a floating bearing, and the retrofittable escape release add the finishing touches to its versatility.

Innovative LED concept

The innovative LED concept, with one RGB LED, allows for detailed diagnostics. Different switching states can be quickly detected, guaranteeing that states and faults are clearly identified.

Maximum safety

Transponder coding ensures maximum safety. The proven transponder technology guarantees that even a single CTS achieves category 4/PL e in accordance with EN ISO 13849-1 and meets all the requirements of EN ISO 14119.

Versatile thanks to FlexFunction

A separate switch for each application? Not with the CTS. In this safety switch, the functions are configured via the actuator. With or without guard lock monitoring and with actuator code evaluation at a high or low coding level – the choice is yours.



BENEFITS FOR YOU

- + A robust switch with a compact design
- + Guard locking function for the protection of persons up to Cat. 4/PL e
- + Suitable for both large and small safety doors
- + Accessories can be retrofitted to adapt the switch to any machine design

CTS IN DETAIL



SWITCH

- High locking force (F_{max}) of 5,000 N and a compact design
- Innovative LED concept with RGB LED: a clear diagnostic display, visible from three sides
- Maximum safety in accordance with EN ISO 13849-1 category 4/PL e and EN ISO 14119
- Two versions available: guard locking based on the open-circuit or closed-circuit current principle
- Can be connected in series with other EUCHNER devices from the BR system family
- Connecting cable with plug connector or flying lead for easy installation
- Two auxiliary releases to allow the unlocking of the guard locking using a tool

ACTUATOR

- The actuator mounted on a floating bearing tolerates vibration and misalignment
- One actuator for all applications: suitable for both sliding doors and doors with a very small radius



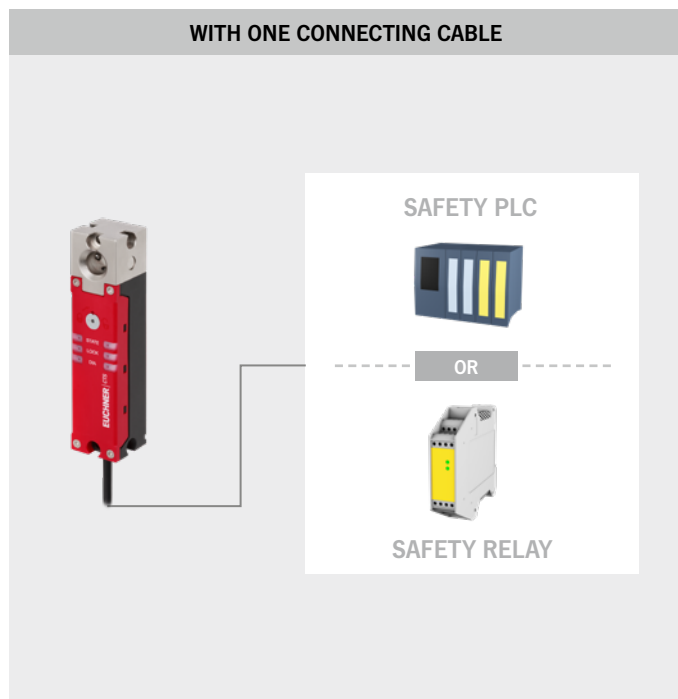
ESCAPE RELEASE

- A simple press releases the guard locking
- Can be retrofitted
- Extendable length

SIMPLE WIRING – THE CTS IS COMPATIBLE WITH ANY MACHINE DESIGN

INDIVIDUAL CONNECTION

WITH ONE CONNECTING CABLE



A direct connection to the safety evaluation unit with only one cable.

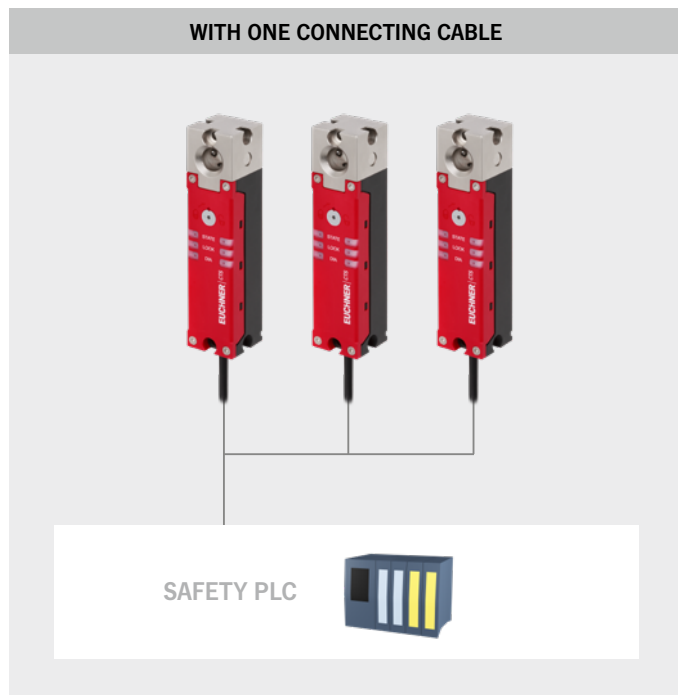
WITH TWO CONNECTING CABLES



Direct connection to decentralized fieldbus modules.

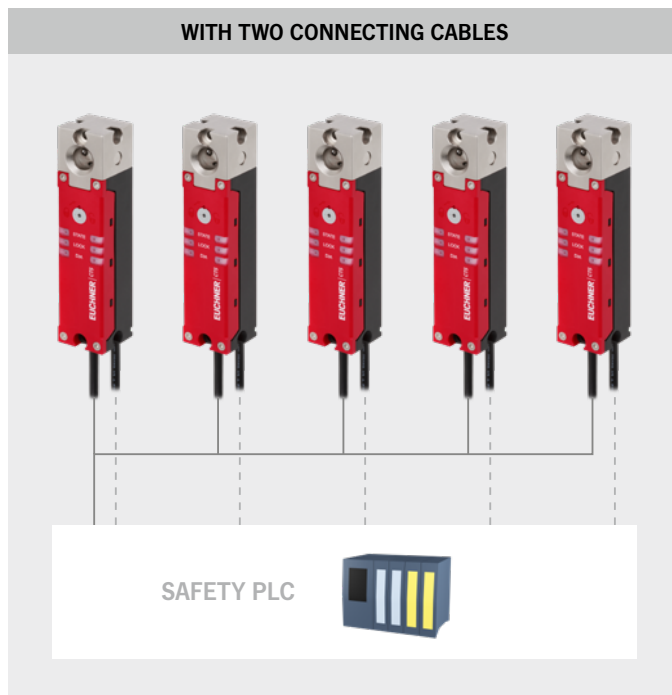
SERIES CONNECTION

WITH ONE CONNECTING CABLE



Cost-effective and time-saving with only one cable. These variants are an ideal solution for series connection. One signal controls the locking function of all the CTS safety switches simultaneously.

WITH TWO CONNECTING CABLES



For an extended series connection with up to 20 CTS. The concept gives maximum flexibility, allowing the individual control of each guard locking device. The CTS can be connected in series with other EUCHNER devices.

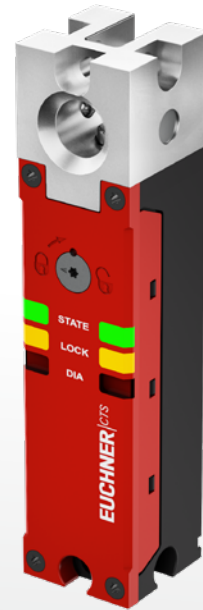
STAINLESS STEEL CTS – SPECIAL VARIANTS FOR CHALLENGING APPLICATIONS

Stainless steel variants of the CTS are ideal for challenging applications in battery cell manufacturing, the semiconductor industry or processes where significant corrosion occurs.

All the external metal components of the stainless steel CTS variants are made of alloys with only a very small proportion of copper, nickel and zinc. This prevents a reduction in quality and damage to the battery. The plastic escape release can be easily retrofitted for these applications.

BENEFITS FOR YOU

- + Maximum safety and reliability for high-end applications
- + The compact design of the switch makes it ideal when installation space is limited
- + Standard actuators can be used



VERSATILE ACCESSORIES – ADDITIONAL APPLICATIONS FOR THE CTS

Mounting plates

- Mounting plates for direct mounting of the CTS and the actuator

Set of mounting plates with handle

- Simple integration of the CTS into existing doors
- Compatible with the escape release
- For doors hinged on the right and left
- A variant with an integrated magnet ensures that the door remains closed

Lockout bar

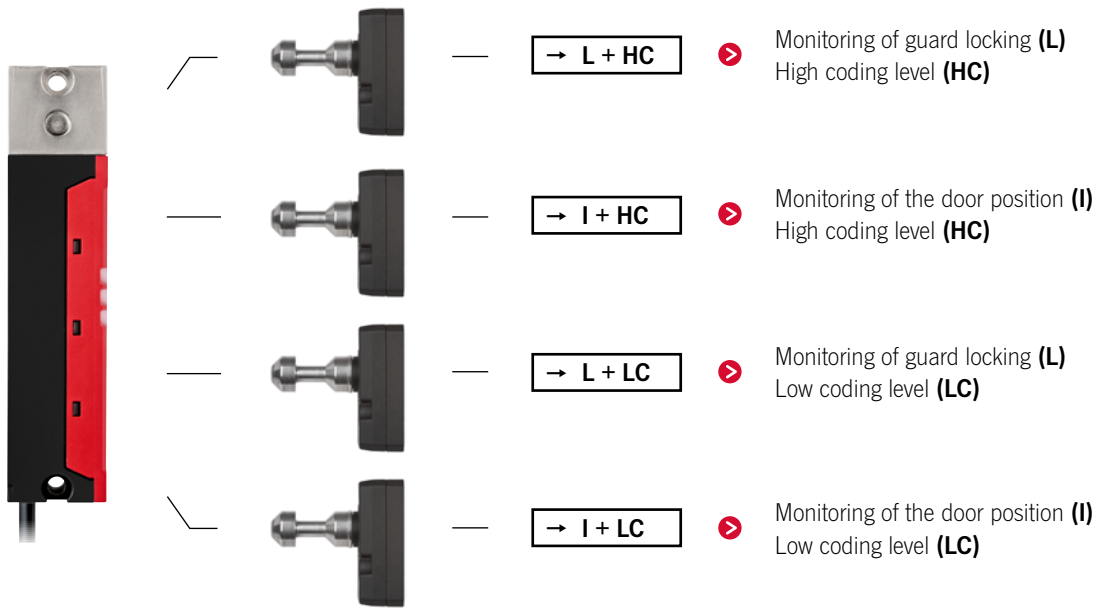
- Prevents unintentional closing of the door
- With space for up to five padlocks

Extension of the escape release

- For customized actuating length



ONE SWITCH – MANY OPTIONS



Monitoring of **GUARD LOCKING**
HIGH coding level



+



→ L + HC

PROTECTING WHOLE BODY ACCESS DOORS

- Protection of personnel where a high level of protection against tampering is required
- High locking force of 3,800 N (F_{zh})
- Readily visible RGB LED for simplified diagnostics

Escape release (can be retrofitted)





+



→ L + LC

GUARD LOCKING FOR PERSONNEL PROTECTION

- Safety outputs react to the status of the guard lock
- Protection against over-traveling machine movements
- Covered installation: a low coding level is sufficient

Monitoring of **GUARD LOCKING**
LOW coding level



+



→ I + LC

SAFE MONITORING OF THE DOOR POSITION WITH OPTIONAL GUARD LOCKING FUNCTION

- Safety outputs react to the door position
- Low coding level
- No unintentional process interruption

Monitoring of the **DOOR POSITION**
LOW coding level



+



→ I + HC

PROCESS PROTECTION WITH OPTIONAL GUARD LOCKING FUNCTION

- Safety outputs react to the door position
- High coding level protects against tampering
- Flexible installation with side mounting and connecting cable with plug connector

Monitoring of the **DOOR POSITION**
HIGH coding level

**A CLOSE WORKING
RELATIONSHIP –
LITERALLY!**



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