

Safe door monitoring with process lock

Sentry, Magne OSSD and contactors



Application

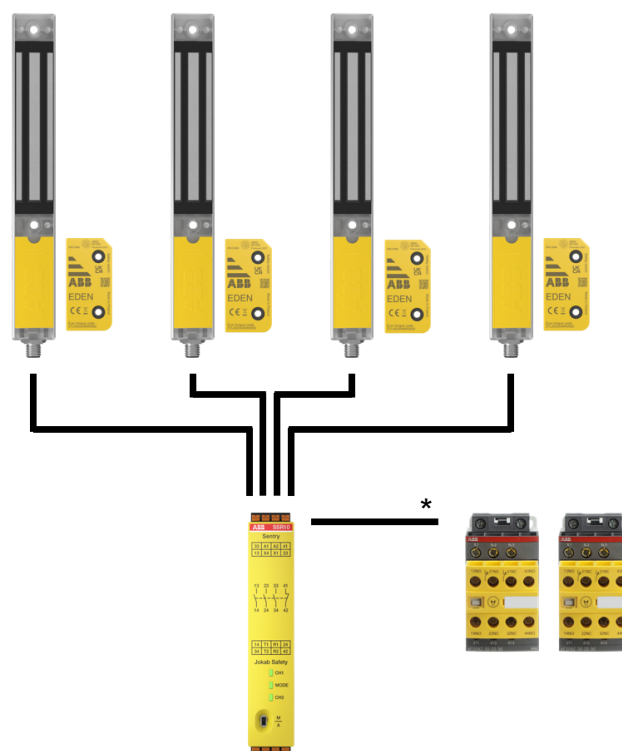
Magne is an electromagnetic process lock suitable for applications that are sensitive to unintentional or unnecessary interruptions. Magne is used to lock doors or hatches and has an integrated non-contact safety sensor for safe supervision of the door. (Note that since Magne is a process lock, the locking function is non-safe, but the supervision is safe.)

A safety relay is used for monitoring the process locks and control the contactors that safely remove power from the machine. The safety relay can be configured for manual or automatic reset.

Functional safety level

Even if the process locks are connected in series (daisy chain) the supervision still fulfills the maximum safety level - up to Category 4, PL e according to EN ISO 13849-1:2015 and up to SIL3 according to EN 62061:2005.

Magne OSSD meets the coding requirements according to EN ISO 14119:2013 regarding manipulation protection.



*) Includes EDM (external device monitoring) to monitor the state of the contactors.



Sentry SSR10P

Sentry safety relay

Choose between standard screw terminals or push-in terminals

Description	Type	Order code
Single function safety relay with screw terminals	Sentry SSR10	2TLA010050R0000
Single function safety relay with push-in terminals	Sentry SSR10P	2TLA010050R0001



Magne 4 OSSD-Info

Magne process lock

Description	Type	Order code
Electromagnet with integrated Adam sensor	Magne 4 OSSD-Info	2TLA042022R4600



OCB-1A

Anchor plate for magne

Choose if you want a permanent magnet that holds the door in place when unlocked

Description	Type	Order code
Anchor plate with permanent magnet	Magne Anchor 32E	2TLA042023R0420
Anchor plate without permanent magnet	Magne Anchor 32D	2TLA042023R0410



Eva general code

Eva non-contact safety actuator

Choose low or high level coding, depending on risk assessment

Description	Type	Order code
Low level coded actuator. (Eva is interchangeable.)	Eva general code	2TLA020046R0800
High level coded actuator	Eva unique code	2TLA020046R0900



M12-C63

Cables

Choose suitable cable length

Description	Type	Order code
M12-8 cable length 3 meter	M12-C33	2TLA020056R2900
M12-8 cable length 6 meter	M12-C63	2TLA020056R3000
M12-8 cable length 10 meter	M12-C103	2TLA020056R4000
M12-8 cable length 20 meter	M12-C203	2TLA020056R4100

Note that alternative cable lengths exist



AFS09

Safety contactors

The AFS contactors are dedicated for safety applications. See [product sheet](#) for range and selection.

Main benefits



Easy to install



Affordable range



Continuous operation

Magne

- Less wear than a mechanical lock since there are no moving parts.
- Holding force up to 1500 N.
- Serial connection according to Cat. 4
- Appropriate when high motivation for fraud.
- Easier troubleshooting with extensive LED indication and info signal.
- M12 connector speeds up installation.
- Possible to connect in series with Eden sensors.

Sentry

- Up to PL e/SIL3
- Powerful outputs, up to 6A
- Manual or automatic reset selectable by switch on front (SSR models)
- Lighting and flashing of the reset button managed by the Sentry safety relay
- Extensive LED indication
- Removable terminal blocks
- Available with spring-loaded push-in terminals or screw terminals

Safety contactors

- Complying with main safety standards EN ISO 13849 and EN 62061 guaranteeing the safe use of machinery and equipment
- Contactor status guaranteed with factory mounted auxiliary contact blocks
- Easy safety chain identification with the yellow housing
- Simplify calculation of installation safety level with safety values available in FSDT and Sistema tools

Links

Product sheets

[Sentry flyer](#)
[Magne flyer](#)
[Eden flyer](#)
[AF contactors for safety applications](#)

Web pages

[Sentry SSR10](#)
[Magne 4 OSSD-Info](#)
[Eva General code](#)
[Eva Unique code](#)
[Magne Anchor 32D](#)
[Magne Anchor 32E](#)
[Contactors for safety applications - Motor protection and control](#)

Connection diagrams

[Sentry connection diagrams with most safety devices](#)

Manuals

[Sentry SSR10](#)
[Magne 3 and 4](#)