



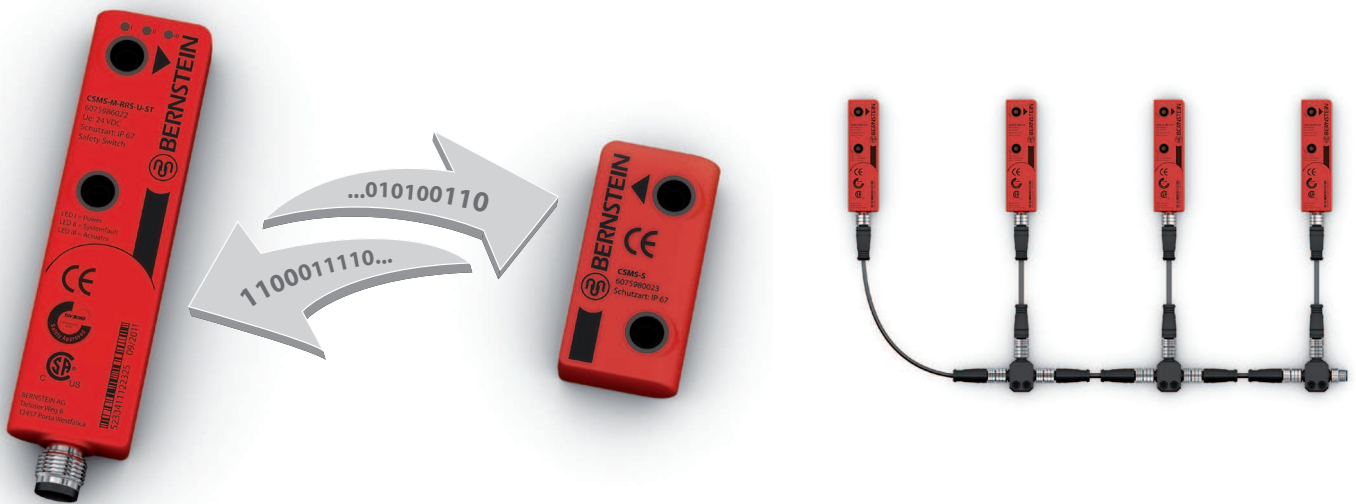
BERNSTEIN CSMS

The most versatile contactless safety monitoring sensor throughout the market

The CSMS

Contactless Safety Monitoring Sensor

The **CSMS** is a **contactless safety sensor** which ensures that safety doors and protective guards remain closed. The contactless sensor uses **RFID technology** and can be used individually or in series.



The **CSMS** is a future-proof safety product which already **meets one of the requirements of draft DIN EN ISO 14119** regarding manipulation protection.

The CSMS offers **excellent diagnostics** enabling open safety guards and system errors to be located quickly.

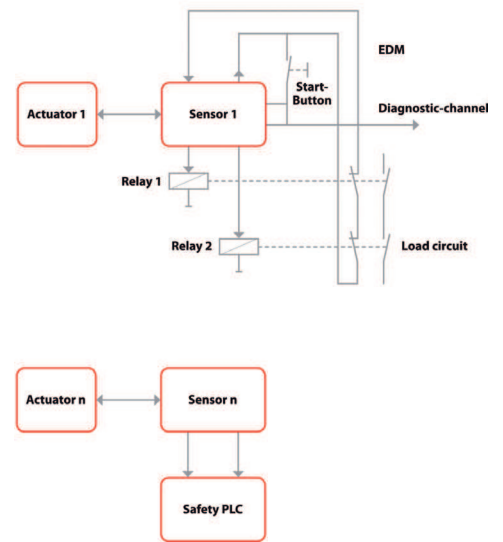
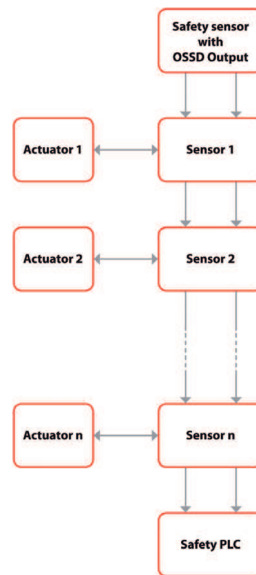
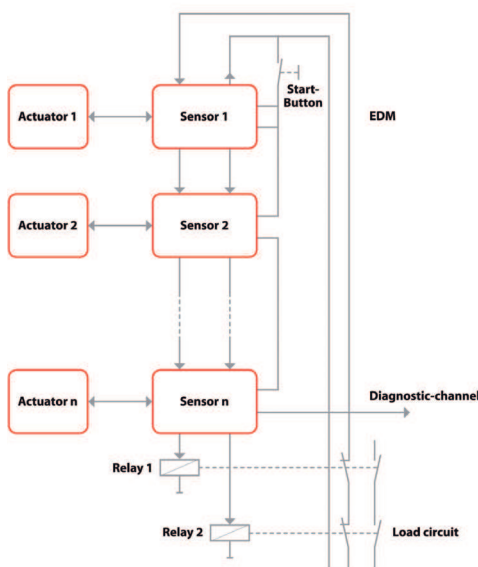
The diagnostics consists of:

- 3 LEDs integrated in the CSMS
- Status indicator and choice of system status by means of basic diagnostics
- Status indicator and choice of system status by means of basis diagnostics device
- Complete system status by means of optional bus gateway, for ex. Profibus (in preparation)

CSMS Series circuits without additional evaluation

CSMS Series circuits with evaluation device

Individual CSMS with or without additional evaluation



- Series circuits with up to 32 sensors up to PL e
- Integrated return circuit evaluation
- Manual and automatic start
- Direct connection to contactors
- Highly configurable system for ex. CSMS-SET-RRS-U-ST 6075988027

- Series circuits with up to 32 sensors up to PL e
- Connection to an evaluation for ex. safety controller
- Optional connection to a safety sensor for ex. to safety light curtain, with OSSD output to the first CSMS possible
- Highly configurable system for ex. CSMS-SET-R-U-ST 6075988028

- Individual CSMS up to PL e
- Integrated evaluation of a return circuit and start button with direct connection possible to contactors for ex. CSMS-SET-RRS-U-ST 6075988027

or

- Connection to an evaluation for ex. safety controller with or without connection of an additional safety sensor to the first CSMS for ex. CSMS-SET-R-U-ST 6075988028

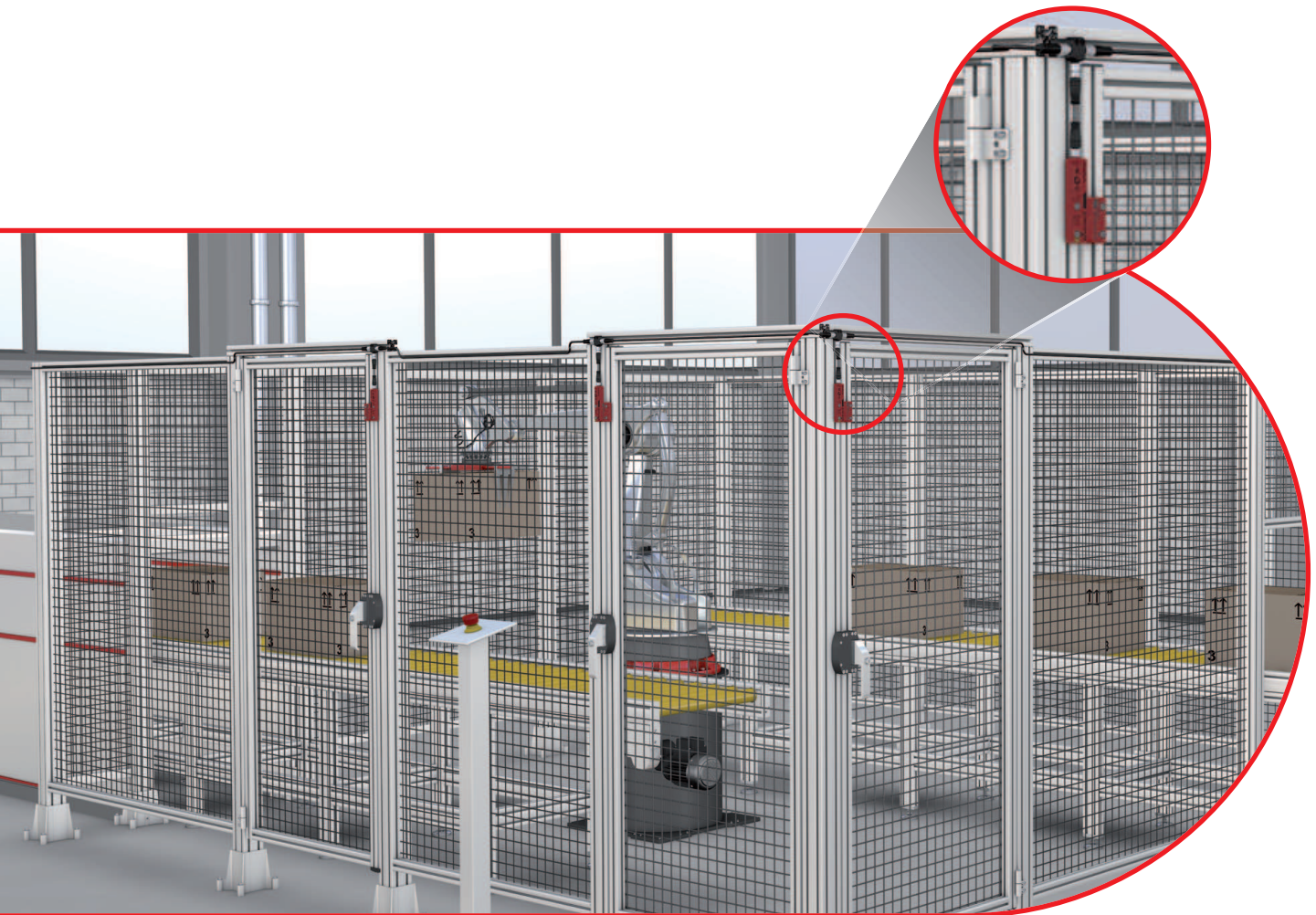
CSMS product features



- Performance Level e
- Up to 32 series circuits without leaving the PL e
- High coding level according to draft DIN EN ISO 14119
- An external monitoring device is not necessary
- Connection of a return circuit and start button is possible
- Output current up to 250 mA per safety output
- Large diagnostic possibility
- 3 LEDs for status information of the CSMS
- Switching distance: 13 mm
- Dimensions: 110 mm x 30 mm x 15 mm
- IP 67

Article number	Designation	Description
6075988029	CSMS-SET-RRS-U-KA	Can be switched in series, with EDM and start button monitoring, cable version
6075988027	CSMS-SET-RRS-U-ST	Can be switched in series, with EDM and start button monitoring, M12 connector
6075988030	CSMS-SET-R-U-KA	Can be switched in series, be connected to a monitoring device, cable version
6075988028	CSMS-SET-R-U-ST	Can be switched in series, be connected to a monitoring device, M12 connector
6075989036	T-ADAPTER AS	T-pieces connections for series circuits, standard/automatic start
6075989037	T-ADAPTER MS	T-pieces connections for series circuits, manual start
6075989031	CSMS BASISDIAGNOSE	Diagnostic indicator device
6075989032	CSMS DIAGNOSE 3 OUT	Additional unit of 8 binary diagnostic outputs
6075989035	CSMS BASISANSCHLUSSBOX	Connection device for easy and fast installation of the CSMS system
6075989047	CSMS SLAVE TEACHADAPTER	Tool for teaching in a replacement actuator
6073900070	CSMS DISTANZSTÜCK 8MM	Inferior element for actuator
6075989044	CSMS DISTANZSTÜCK LG 8MM	Inferior element for sensor

CSMS product advantages



- **Safety series circuits** of up to 32 CSMS up to PL e / SIL 3 (category 4)
- **Cost reduction** as there is no need of any additional external monitoring
- **Easy to use** as manual or automatic start is possible with the same CSMS
- **Future Safety** included as the CSMS correspond to the draft of DIN EN ISO 14119 (which supersedes the EN 1088) concerning individual coding (high coding level)
- **Economic system installation** as M12 Connectivity **reduces installation time** and therefore **reduces cost**
- **Time-saving** as **no wiring errors** are possible
- **Time-saving** because of system status indication via the diagnostic interface
- CSMS is tolerant to misalignment **reducing cost of guarding**



**Switch systems –
Economy meets safety**



**Sensor systems –
Compact intelligence**



**Enclosure systems –
Function and design**

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