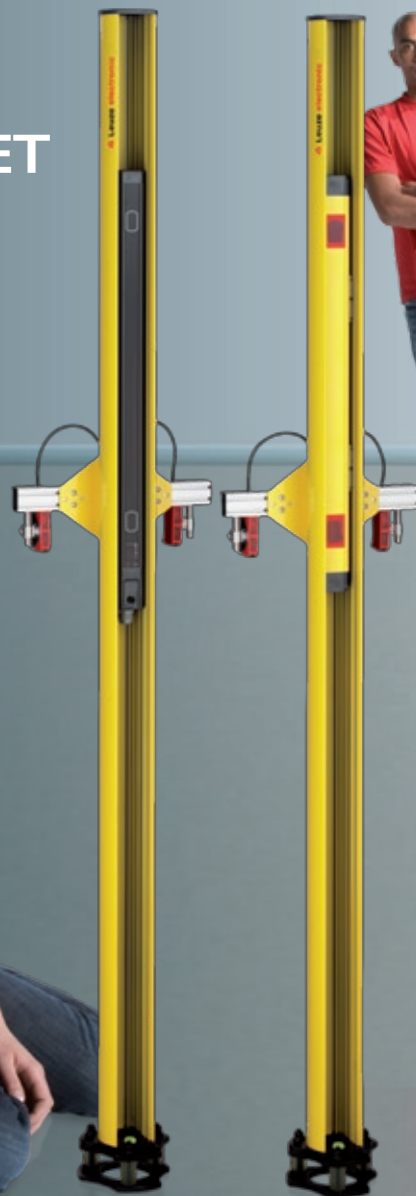


the **sensor** people

CPSET, ROBUST-SET

Safety Sensor Sets for
access guarding with and
without Muting function



Efficient safety solutions with the **No Worries Pack.**

Demand-oriented Safety Sensor Sets in a wide range of models.

Safety Sensor Sets permit the efficient setup of access guarding. Both the preconfigured CPSET solutions with integrated Muting and the ROBUST-SET models with and without Muting function can be anchored permanently as free-standing devices using special foot elements. The components are electronically and mechanically optimally matched and specifically selected for the respective application. As a result, access guardings can be implemented easier, faster, and generally cheaper than with comparable individual components.



ROBUST-SET – the simple complete solution for the setup of access guardings with and without Muting function.

For access guarding and **Muting applications** – when simplicity and time count.

CPSET systems

CPSET systems are Safety Sensor sets with integrated Muting, with both optoelectronic Muting sensors and induction loops. The configuration preset by the factory is already adapted to the respective application case. This minimizes the effort spent on planning and at the construction site.

- Plug & Play complete Muting solutions with optical sensors preinstalled in device columns (Multiple Light Beam Safety Device or Muting Transceiver)
- Efficient setup and commissioning due to plug-in connections
- Preinstalled Muting components and display and control unit with start button for unlocking start/restart interlock

Conveyor systems are one of many possible applications for CPSET complete systems with integrated Muting and override functions.

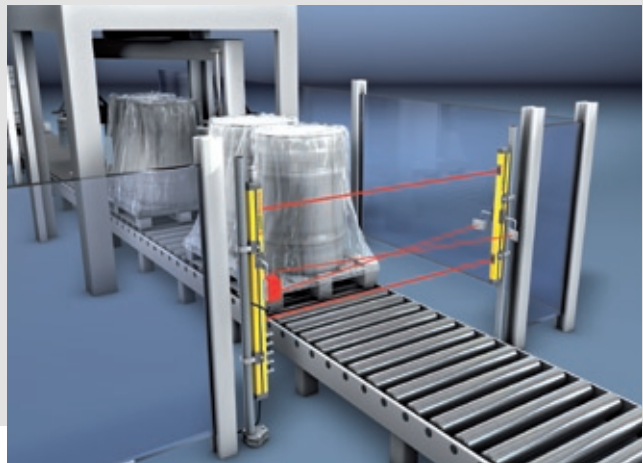


ROBUST-SET systems

ROBUST-SET systems contain pretty much everything required for the efficient setup of access guarding. The Muting function can be implemented with an additional MSI Safety Relay in the cabinet.

- Comprehensive set for the efficient installation of access guardings
- 2-Sensor or 4-Sensor Muting with MSI-mx Safety Relay
- ROBUST Transceiver, also available with integrated Muting indicator
- Integrated optics heating for use in extreme environmental conditions

Safety Sensor Systems ROBUST-SET provide reliable protection and, together with MSI Safety Relays, permit Muting as well.



Two examples from a **wide range of options**.
Everything you need.

Example 1

CPSET-M23 – 2-beam complete system for 2-sensor Parallel Muting

The CPSET-M23 uses two retro-reflective photoelectric sensors with crossed beams as Muting sensors. The Muting sensors and reflectors are already mounted at the factory on the MMS Muting mounting system's fixing component. The safety sensors are already preinstalled into the device columns. Settings can be made via switch in the device or via the SafetyLab PC software.

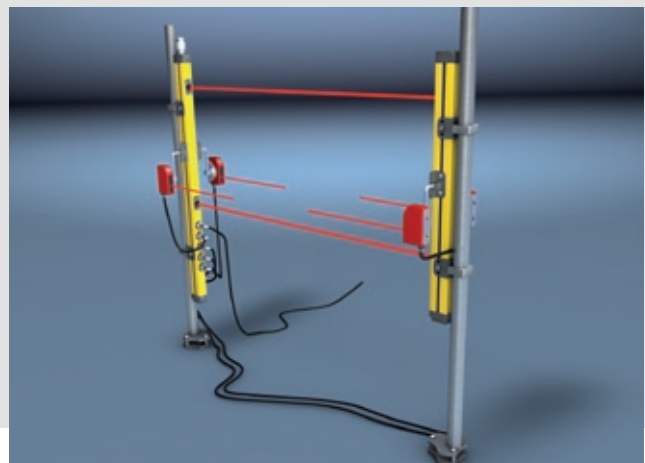
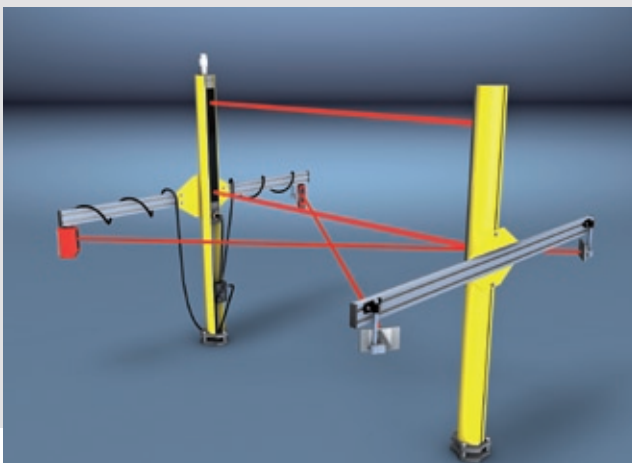
Functions: 2-sensor Parallel Muting, integrated Muting indicator, Muting time limit, Muting restart override mode, start/restart interlock, MultiScan.

Example 2

ROBUST-SET M8HRT46 – a set for access guardings with Muting option

ROBUST-SET M8HRT46 are complete sets with Muting sensors and mounting columns. The components contained in the set include four diffuse reflection light scanners, permitting an easy implementation of applications with 4-sensor Parallel Muting with an additional MSI Safety Relay.

Functions: Access guarding with Muting function, 4-sensor Muting with MSI-mx Safety Relays, automatic start/restart, optics heating, LED display, Muting sensor connection.



The full **CPSET** diversity at a glance.

CPSET	Muting complete system consists of ...
-M01, -M02	CPR400/3-mxl01/R2 (3-beam Light Beam Safety Device receiver with integrated Muting indicator), CPT400/3/T1S0 (3-beam Light Beam Safety Device transmitter incl. supply cable), 2 UDC-1600-S1 (device columns), 2 PRK 25B (retro-reflective photoelectric sensors with UMS Deflecting Mirrors), MMS-A-1000 (Muting Mounting System), MMS-P-1000, 2 sensor cables, connection cable: 10 m (CPSET-M01), 25 m (CPSET-M02)
-M03, -M04	CPR400/3-mxl02/R2 (3-beam Light Beam Safety Device receiver with integrated Muting indicator), CPT400/3/T1S0 (3-beam Light Beam Safety Device transmitter incl. supply cable), 2 UDC-1600-S1 (device columns), 4 HRT 46B (diffuse reflection light scanners with fixing component BT46), 2 MMS-A-350 (Muting Mounting System), 4 sensor cables, connection cable: 10 m (CPSET-M03), 25 m (CPSET-M04)
-M05, -M06	CPRT500/2-mxl01/R2 (Muting Transceiver with integrated Muting indicator), CPM500/2V-SO (Deflecting Mirror), 2 UDC-1600-S1 (device column), 2 PRK 25B (retro-reflective photoelectric sensors with UMS Deflecting Mirror), MMS-A-1000 (Muting Mounting System), MMS-P-1000, 2 sensor cables, connection cable: 10 m (CPSET-M05), 25 m (CPSET-M06)
-M07, -M08	CPRT500/2-mxl02/R2 (Muting Transceiver with integrated Muting indicator), CPM500/2V-SO (Deflecting Mirror), 2 UDC-1600-S1 (device column), 2 MMS-A-350 (Muting Mounting System), 4 HRT 46B (diffuse reflection light scanners with fixing component BT46), 4 sensor cables, connection cable: 10 m (CPSET-M07), 25 m (CPSET-M08)
-M11, -M31	CPSET-M11: CPRT500/2-m03/R2 (Muting Transceiver), CPM500/2V-SO (Deflecting Mirror). CPSET-M31: CPR400/3-m03/R2 (3-beam Light Beam Safety Device receiver), CPT400/3/T4 (3-beam Light Beam Safety Device transmitter). Also in both sets: 2 UDC-1900-S1 (device columns), 2 MSSU-H46 (Muting sensor set), AC-BB-OPT (display and control unit with start button and Muting indicator), 2 sensor cables
-M12, -M32	CPSET-M12: CPRT500/2-m03/R2 (Muting Transceiver), CPM500/2V-SO (Deflecting Mirror). CPSET-M32: CPR400/3-m03/R2 (3-beam Light Beam Safety Device receiver), CPT400/3/T4 (3-beam Light Beam Safety Device transmitter). Also in both sets: 2 UDC-1900-S1 (device columns), 2 KAS_1 (induction loops with connection cable 6m), AC-BB-IND (display and control unit with evaluation unit for induction loops, start button, and Muting indicator)
-M13, -M33	CPSET-M13: CPRT500/2-m03/R2 (Muting Transceiver), CPM500/2V-SO (Deflecting Mirror). CPSET-M33: CPR400/3-m03/R2 (3-beam Light Beam Safety Device receiver), CPT400/3/T4 (3-beam Light Beam Safety Device transmitter). Also in both sets: 2 UDC-1900-S1 (device columns), AC-BB-RES (display and control unit with start button)
-M20	CPRT500/2-m04/T4 (Muting Transceiver), CPM500/2V (Deflecting Mirror), AC-ABF-SL1 (display and control unit with start button and Muting indicator), PRK 46B (retro-reflective photoelectric sensors with mounting brackets TKS 50x50), MMS-AP-N60 (Muting Mounting System), splitter cable to Muting sensors and control unit, connection cable 15 m, no device columns
-M23	CPRT500/2-mI0/R2 (Muting Transceiver with integrated Muting indicator), CPM500/2V-SO (Deflecting Mirror), 2 UDC-1300-S1 (device column), 2 PRK 46B (retro-reflective photoelectric sensors with UMS Deflecting Mirrors), MMS-A-1000 (Muting Mounting System), MMS-P-1000, 2 sensor cables
-M24	CPRT500/2-m06/R2 (Muting Transceiver), CPM500/2V-SO (Deflecting Mirror), 2 UDC-1900-S1 (device column), 2 PRK46B (retro-reflective photoelectric sensors), MMS-A-1000S (Muting installation system), MMS-P-1000S (Muting Mounting System incl. reflectors), AC-ABF-SL1 (display and control unit), AC-SCM1-BT (Muting sensor connection box)

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