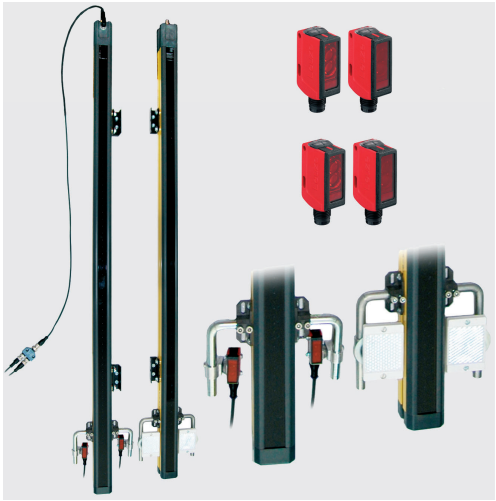
CPSET-M26 — Complete Muting system



Complete Muting System

The CPSET-M26 is a complete Muting system for access guarding areas through which operational material with a known maximum height, such as a paper roll, must be transported. At the heart of the system is a light curtain with 30 mm resolution and 1350 mm protective field height. While the upper beam, located directly below the display area, is always active, the protective function of the lower beams can be temporarily disabled through Muting. To safeguard access next to an object during Muting, the CPSET-M26 also contains two testable type 2 SLS Light Beam Safety Devices that are not Muted and are, thus, permanently active. The Light Beam Safety Devices are tested by a TNT 35 test power supply, which is included in the delivery contents. The two type 2 Light Beam Safety Devices, which are connected in series, are integrated in the safety circuit by integrating the two OSSD switching outputs of the Safety Light Curtain in the switch-off circuit via the relay of the TNT 35.

In addition to the optical protective device, the CPSET-M26 also includes the necessary accessories for Muting, such as pre-mounted laser photoelectric sensors and reflectors incl. mounting brackets and several connection cables. The connection cables to the cabinet are not included in the delivery contents but can be ordered separately in various lengths.

The preset functions are:

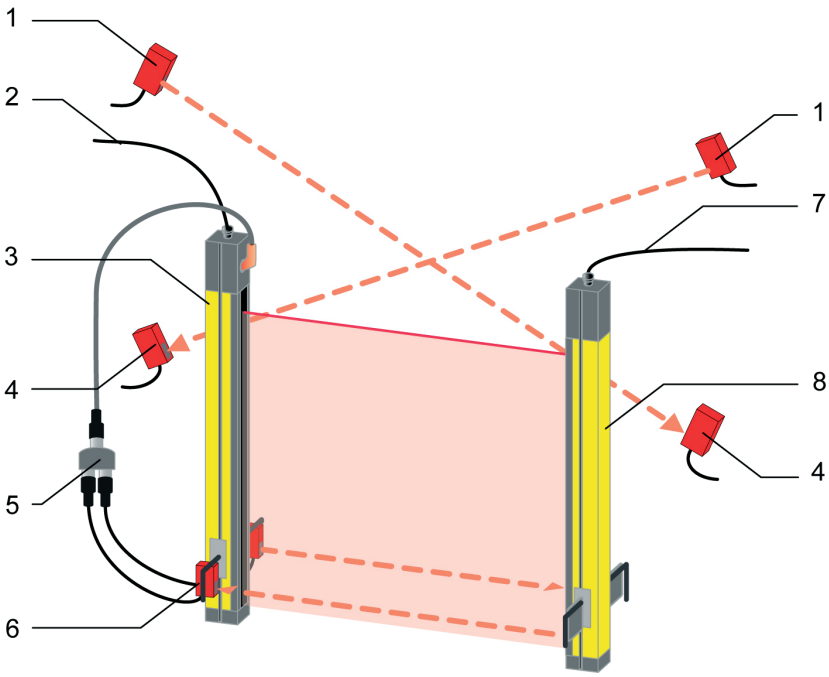
- Start/restart interlock
- Partial Muting (Muting without beam 1)
- Parallel Muting (L1, M5) with reduced simultaneity of 0.5 s between the sensor signals

Clearing an occupied Muting path after switching back on or following errors is performed by pressing and releasing the reset button twice within a 4-second period.

Features

- Complete Muting set, including accessories
- Mounting on the machine via supplied swiveling mounting brackets
- Preconfigured in the factory
- Other configuration and diagnostics possible with PC software

Structure



1 SLS transmitter
2 Connection receiver, M12, 7-pin+FE
3 Light-curtain receiver
4 SLS receiver
5 Y-distributor with connection cables
6 Muting Sensors
7 Connection transmitter, M12, 4-pin+FE
8 Light-curtain transmitter

Electrical connection

The plug of the /T4 receiver interface is wired as follows:

Pin	Color	Signal assignment
1	White	M4 – signal output: Muting signal at L1 (static) and fault/contamination (flashing)
2	Brown	+24 V DC supply
3	Green	M2 – input: reset-button
4	Yellow	M5 – input: second Muting signal
5	Gray	OSSD1 – route to the switch-off circuit via the relay of the TNT35
6	Pink	OSSD2 – route to the switch-off circuit via the relay of the TNT35
7	Blue	0 V supply
8	Shield	Functional earth FE

On the transmitter, pin 2 (white) and pin 4 (black) are to be connected to one another. Otherwise, it operates in test operation and the red dot on the 7-segment display illuminates - the receiver does not switch on.

Part No. 607108

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Mounting and starting up

The transmitter and receiver of the light curtain are secured at the correct height on the machine by means of swiveling mounting brackets in such a way that they can be aligned with one another. The transmitter and receiver of the two Light Beam Safety Devices on the machine are to be fastened so that their beams cross at approximately the middle of the access and extend far enough laterally to detect people next to the material being conveyed during Muting.

Receiver and transmitter of the light curtain are connected and supplied with power by means of M12 4-pin+FE (transmitter) and 7-pin+FE (receiver) connection cables that are to be provided by the user. After the devices have been aligned with one another, the orange LED in the receiver display illuminates. By means of the reset button on M2, the internal restart disable can be reset if the protective field of the light curtain is clear and the beams of the two Light Beam Safety Devices are unobstructed - the receiver switches on both OSSDs. The two laser photoelectric sensors that function as Muting sensors must now be aligned with their respective reflector. They are electrically connected in parallel in such a way that, in the event of interruption of at least one laser beam, they together return just one Muting signal (L1). This signal is output at output M4 of the receiver. At input M5, the second independent Muting signal is expected within 500 ms.

Ordering information

Part No.	Article	Description
909964	CPSET-M26	Complete set for partial Muting
429081	CB-M12-5000S-8GF	Connecting cable – receiver, 5 m
429083	CB-M12-10000S-8GF	Connecting cable – receiver, 10 m
429085	CB-M12-15000S-8GF	Connecting cable – receiver, 15 m
429071	CB-M12-5000S-5GF	Connecting cable – transmitter, 5 m
429073	CB-M12-10000S-5GF	Connecting cable – transmitter, 10 m
429075	CB-M12-15000S-5GF	Connecting cable – transmitter, 15 m
520073	SLAB-SWC	PC software for COMPACT*plus*