

SAFEGATE

ACCESS GUARDING. WE MAKE IT EASIER



SAFEGATE

Programmable safety light curtain with integrated muting functions

The new SAFEGATE type 4 range of safety light curtains is the ideal solution for the protection of a vast number of high-risk industrial applications, in particular those requiring a high level of integration of the muting functions. SAFEGATE guarantees the integration of the muting sensors that can be connected directly to the safety light curtain.

Hardware configurable models (SM/SMO) allow configuration of the muting logic and functional parameters via the main connector wiring. Programmable models (SMPO) functional parameters configuration is managed instead via Safegate Configuration Software (SCS).

The SAFEGATE range includes the following features:

- Resolutions: 30, 40 mm - 2, 3 and 4 beams
- Emitter / Receiver and Transreceiver versions (passive retro-reflector elements)
- Integration of the main safety functions, including self-testing of solid state outputs, external device monitoring (EDM) and Start/Restart interlock function
- Cross-section dimensions: 55x50 mm
- Protected height: from 300 to 2200 mm
- Protection rating: IP65 and IP67
- Operating temperature: - 30 / +55 °C (without condensing)
- Integrated muting lamp (SMO/SMPO models).

Models

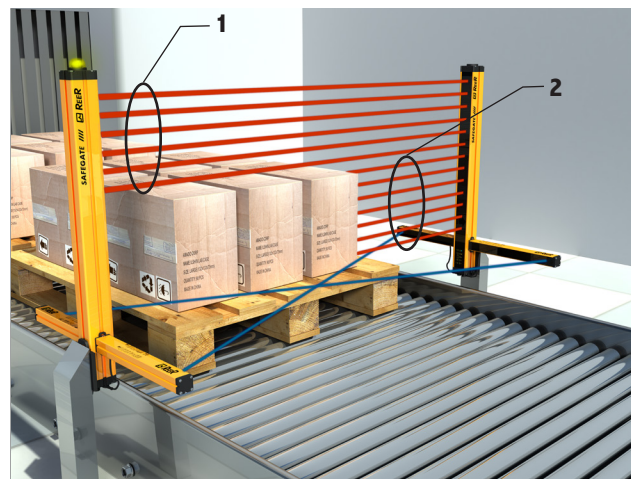
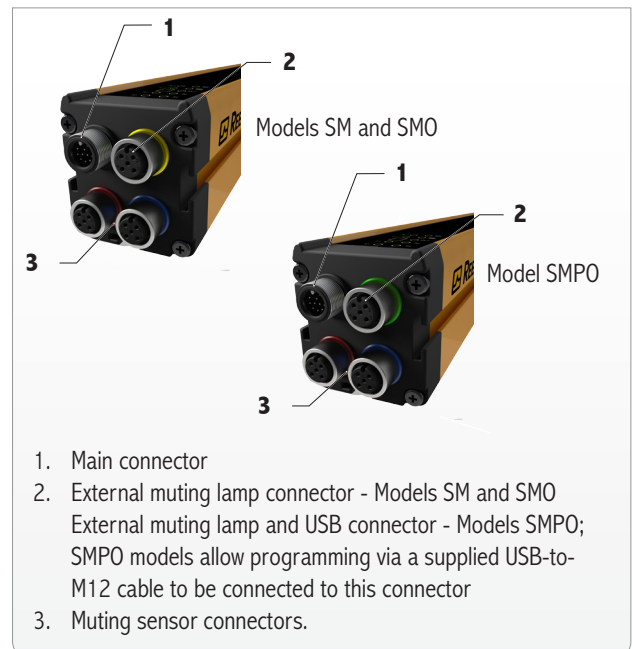
- SM Models – Three different configurations, selectable via different main connector wiring:
 - TX (two-way muting with 2 crossed beams sensors)
 - T4 (two-way muting with 4 parallel beams sensors)
 - L (one-way muting with 2 crossed/parallel beams sensors)
- SMO Models – Same as SM models, with integrated status and muting lamp
- SMPO Models – Programmable via SCS software, with integrated status and muting lamp.

Muting sensors

- Two integrated muting connectors (with four muting inputs) in each safety light curtain. When 4 sensors per side are utilised, the use of a Y-splitter is mandatory
- Pre-wired, pre-aligned Muting arms for TX, T4 and L configurations
- Longer built-in muting arms for high speed conveyors
- Support brackets and arms for muting sensors (photocells).

Partial muting

The SMPO programmable models allows partial muting function, hence the possibility of interdicting a number of beams in relation to the size and shape of the pallet in order to prevent dangerous access when the light curtains is in muting condition.



1. Active beams. When one or more beams are interrupted, the machine is stopped
2. Beams in muting status.

















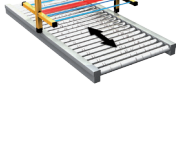





Safety level:
TYPE 4
SIL 3 – SILCL 3 PL e – Cat. 4



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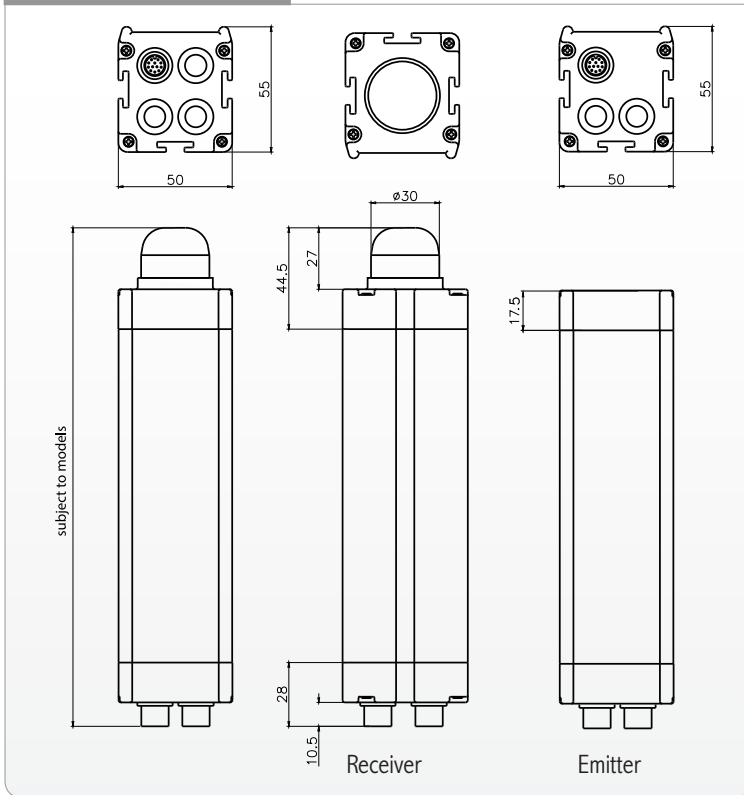
SAFEGATE RANGE

Models	Configurations	External sensors			
		Photocells and M ⁵ sensors	T built-in arms (2 sensors)	L built-in arms (2 sensors)	T built-in arms (4 sensors)
	<p>TX Two-way muting with 2 crossed beams sensors</p>			-	-
<p>SM Models Hardware Configuration without integrated lamp</p> <p>SMO Models Hardware Configuration with integrated lamp</p>	 <p>L One-way muting with 2 crossed or parallel beams sensors</p>				-
					
	<p>T4 Two-way muting with 4 parallel beams sensors</p>				
<p>SMPO Models Software Configuration with integrated lamp</p>	 <p>Programmable Via SCS software</p>				
					
<p>SAFEGATE SET Pre-assembled models</p>	 				-
					

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DIMENSIONS



INTEGRATED LAMP

Lamp status	Light curtain status
	Light curtain beam interrupted BREAK
Flashing	Light curtain in error condition FAIL
	Normal status of the light curtain GUARD
	Muting beams interrupted. Light curtain in muting condition MUTING
Flashing	Override condition OVERRIDE

ACCESSORIES

Accessories

Built-in muting arms

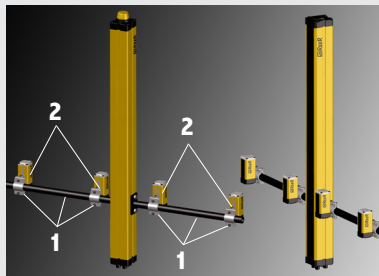
- LX arms (2 sensors)
- TX arms (2 sensors)
- T4 arms (4 sensors)



Application examples

Access control for palletizers with different muting logic: T with crossed beams, L with crossed beams and T with 4 parallel beams (sequential logic with contemporaneity).

1. Brackets and arms for external muting sensors
2. M⁵ 5-beam sensor



Brackets and support arms for muting sensors mounting.

Example of M⁵ 5-beam muting sensors installation: the 5 simultaneously active beams are useful to identify small or discontinuous objects, such as pallets piles.

