ReeR Safegate Light Curtains – Body Protection

Safegate Type 4 access control barriers provide the ideal solution for protection in a wide range of high-risk industrial applications, in particular those requiring a high level of integration of the muting functions. Safegate greatly simplifies seamless integration of muting sensors with light curtain access control barriers

Hardware configuration with integrated status and muting lamp





SMO-3B, SMO-4B, SMO-3B-TRX, SMO-4B-TRX

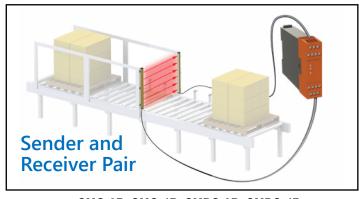
Hardware or software configuration with integrated status and muting lamp



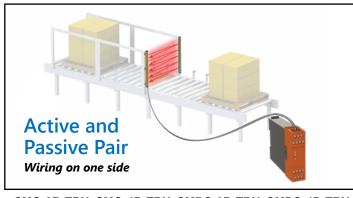




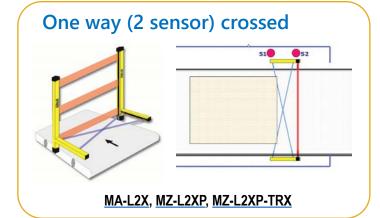
SMPO-3B, SMPO-4B, SMPO-3B-TRX, SMPO-4B-TRX

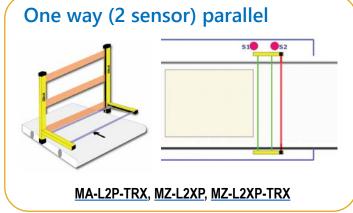


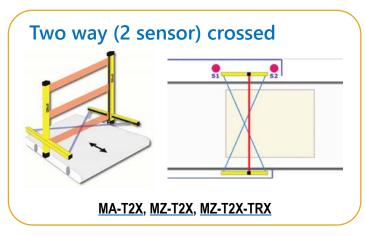
SMO-3B, SMO-4B, SMPO-3B, SMPO-4B

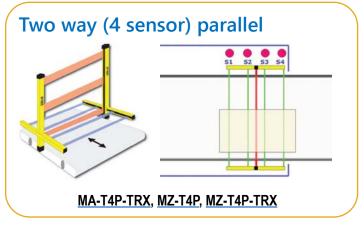


SMO-3B-TRX, SMO-4B-TRX, SMPO-3B-TRX, SMPO-4B-TRX









ReeR Safegate Light Curtains – Body Protection

With Muting Arm/Brackets

Muting Arms: MA-L2X MA-T2X MA-L2P-TRX MA-T4P-TRX

Muting Brackets:

MZ-L2XP

MZ-T2X

MZ-T4P

MZ-L2XP-TPY



MZ-L2XP-TRX MZ-T2X-TRX MZ-T4P-TRX

Cable M12 12-pin cable (See recommended items for cabling) Light Curtains:

SMO-3B

SMO-4B

SMPO-3B

SMPO-4B

SMO-3B-TRX

SMO-4B-TRX

SMPO-3B-TRX

SMPO-4B-TRX

If a TRX light curtain is selected, then the muting arms/brackets part number should end in TRX as well.

Protective Columns (optional)

FMC-SGB3 (for SMxO-3B

or SMxO-3B-TRX)

FMC-SGB4 (for SMxO-4B

or SMxO-4B-TRX)

Protective Column Base: (Required with Protective Column) FMC-CB (shown)

or

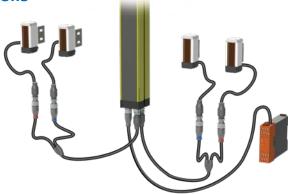
FMC-CBL (not shown)

With Muting Photocells

Photo Cells
M5-A
M5-B
M-TRX-A
M-TRX-B

Y-Splitters CSY12TX CSY12RX

Cable M12 12-pin cable (See recommended items for cabling)





Light Curtain:

SMO-3B

SMO-4B

SMPO-3B

SMPO-4B

SMO-3B-TRX SMO-4B-TRX

SIVIO-4D-1K/

SMPO-3B-TRX

SMPO-4B-TRX

If a TRX light curtain is selected, then the muting arms/brackets part number should end in TRX as well.

Protective Columns (optional)

FMC-SGB3 (for SMxO-3B

or SMxO-3B-TRX)

FMC-SGB4 (for SMxO-4B

or SMxO-4B-TRX)

Protective Column Base: (Required with Protective Column)

FMC-CB (shown)

or

FMC-CBL (not shown)

ReeR Muting and Automation Photocells

ReeR Muting and Automation Photocells – Selection Chart						
Price	Number of Beams	Sensing Range	Coding	Dimensional Drawing		
Emitter/Receiver Versions						
\$165.00	5	0 to 3.5 m [0 to 11.48 ft]	Α	<u>PDF</u>		
\$162.00	5	0 to 3.5 m [0 to 11.48 ft]	В	PDF		
Reflector Versions						
\$120.00	1	0 to 5 m [0 to 16.40 ft]*	Α	PDF		
\$122.00	1	0 to 5 m [0 to 16.40 ft]*	В	<u>PDF</u>		
	\$165.00 \$162.00 \$122.00	Price Number of Beams £mitter \$165.00 5 \$162.00 5 Res \$120.00 1 \$122.00 1	Price Number of Beams Sensing Range Emitter/Receiver Versions \$165.00 5 0 to 3.5 m [0 to 11.48 ft] \$162.00 5 0 to 3.5 m [0 to 11.48 ft] Reflector Versions \$120.00 1 0 to 5 m [0 to 16.40 ft]*	Price Number of Beams Sensing Range Coding Emitter/Receiver Versions \$165.00 5 0 to 3.5 m [0 to 11.48 ft] A \$162.00 5 0 to 3.5 m [0 to 11.48 ft] B Reflector Versions \$120.00 1 0 to 5 m [0 to 16.40 ft]* A \$122.00 1 0 to 5 m [0 to 16.40 ft]* B		

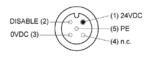


M5-A / M5-B

^{*} Dependent on type of reflector used (see specifications below)

ReeR Muting and Automation Photocells – Specifications					
Model		Micron M5 Emitter Micron M5 Receiver		M-TRX-A / M-TRX-B	
Power Supply					
Power Consumption at 24	VDC	11	0.2 W		
Number of Beams		Į.	1		
			0 to 2.5 m [0 to 8.20 ft] with C3F10 reflector		
Working Range		0-3.5 m [0	0 to 3.5 m [0 to 11.48 ft] with C3F8 reflector		
			0 to 3 m [0 to 9.84 ft] with CD8 reflector		
Beams Pitch		10mm [[0.39 in]	NA	
Immunity to Ambient Light		>10,000	lx (solar)	NA	
Emission Angle		±5°	±5°	±5°	
Emission Wavelength		940nm (moduated infrared) –		660nm (moduated red)	
Response Time		<10ms <10ms		65ms	
Output		– PNP 100maA max / dark-on		PNP 100maA max / dark-on	
Connections		Pigtail 90cm [2.95 ft] Pigtail 90cm [2.95 ft] with M12 5 pin connector with M12 5 pin conne		Pigtail 90cm [2.95 ft] with M12 5 pin connector	
MTTF _d		414.02 years	414.02 years 414.02 years		
Operating Temperature		-30 to +55°C [-22 to 131°F] (with no condensation)	-30 to +55°C [-22 to 131°F] (with no condensation)	-30 to +55°C [-22 to 131°F] (with no condensation)	
Protection Degree		IP65	IP65	IP65	
Width		28mm [1.10 in]	28mm [1.10 in]	28mm [1.10 in]	
Dimensions	Depth	30mm [1.18 in] 30mm [1.18 in]		30mm [1.18 in]	
	Height	70mm [2.76 in]	70mm [2.76 in]	70mm [2.76 in]	

Emitter



	M5 Emitter					
Pin	Pin Color Signal Description					
1	Brown	24VDC	24VDC power supply			
2	White	DISABLE	0VDC=ENABLE 24VDC=DISABLE			
3	Blue	0VDC	0VDC power supply			
4	Black	NA	Not connected			
5	Gray	PE	Ground connection			

Receiver

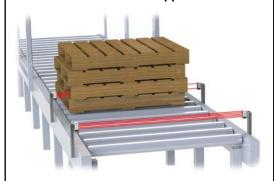


	IKX
n.c. (2) 0VDC (3)	(1) 24VDC (5) PE (4) OUT

	M5 Receiver						
Pin	Color	Signal	Description				
1	Brown	24VDC	24VDC power supply				
2	White	NA	Not connected				
3	Blue	0VDC	0VDC power supply				
4	Black	OUT	0VDC=Area Free	24VDC=Area Obstructed			
5	Gray	PE	Ground connection				

	M TRX					
Pin	Color	Signal	Description			
1	Brown	24VDC	24VDC power supply			
2	White	NA	Not connected			
3	Blue	0VDC	0VDC power supply			
4	Black	OUT	0VDC=Area Free	24VDC=Area Obstructed		
5	Gray	PE	Ground connection			

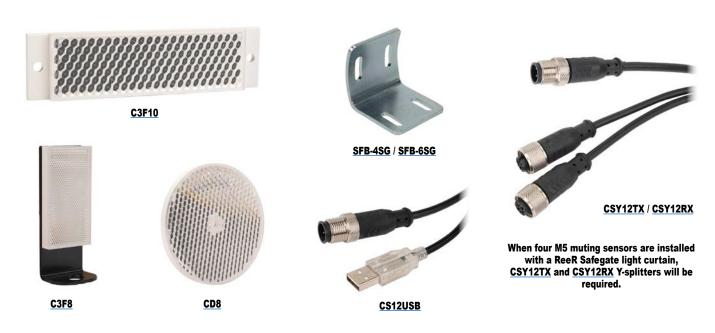
Emitter/Receiver Application



M5 photocells have five beams that are sent out by the emitter. If any one of the five beams is blocked, then the receiver's status signal will change to signify that there is an object in front of the photocell. This is particularly useful when there is a need to detect irregularly shaped items.

ReeR Safegate Light Curtain Accessories

Safegate Light Curtains Accessories Overview							
Part Number	Price	Description	Use With	Dimensional Drawing			
	Reflectors						
<u>C3F10</u>	\$15.00	ReeR reflector, rectangular, 30 x 116 mm [1.18 x 4.57 in].	M-TRX-A or M-TRX-B	<u>PDF</u>			
<u>C3F8</u>	\$26.50	ReeR reflector, rectangular, 30 x 78 mm, [1.18 x 3.07 in] with bracket.	M-TRX-A or M-TRX-B	<u>PDF</u>			
<u>CD8</u>	\$14.50	ReeR reflector, round, 84mm [3.31 in].	M-TRX-A or M-TRX-B	<u>PDF</u>			
		Mounting Brackets					
SFB-4SG	\$57.00	ReeR mounting bracket, replacement, standard, zinc plated steel. Package of 4. Mounting hardware included.	ReeR Safegate Light Curtains	PDF			
SFB-6SG	\$85.00	ReeR mounting bracket, replacement, standard, zinc plated steel. Package of 6. Mounting hardware included.	ReeR Safegate Light Curtains	<u>PDF</u>			
Cables							
CS12USB	\$45.00	ReeR programming cable, USB Type A male to 5-pin M12 quick-disconnect, 5-pole, PVC jacket, black, 6.5 ft [2m] cable length.	SMPO models	NA			
CSY12RX	\$53.00	ReeR muting receiver cable, 5-pin M12 quick-disconnect to (2) 5-pin M12 quick-disconnects, 5-pole, 24 VDC, PVC jacket, black, 1.3 ft [400mm] cable length, IP67.	ReeR Safegate Light Curtains	NA			
CSY12TX	\$53.00	ReeR muting emitter cable, 5-pin M12 quick-disconnect to (2) 5-pin M12 quick-disconnects, 5-pole, 24 VDC, PVC jacket, black, 1.3ft [400mm] cable length, IP67.	ReeR Safegate Light Curtians	NA			



Pinouts

