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

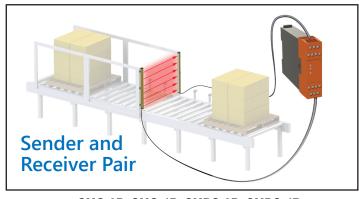
Hardware or software configuration with integrated status and muting lamp



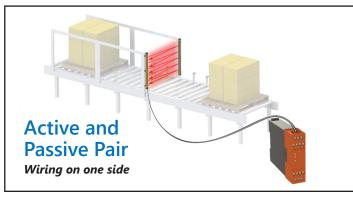




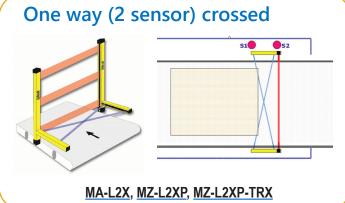
SMPO-3B, SMPO-4B, SMPO-3B-TRX, SMPO-4B-TRX

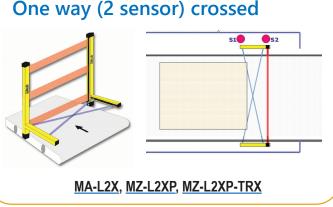


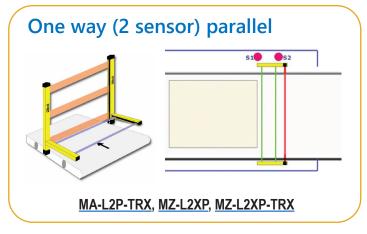
SMO-3B, SMO-4B, SMPO-3B, SMPO-4B

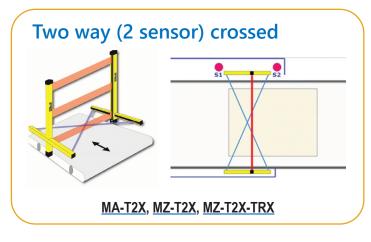


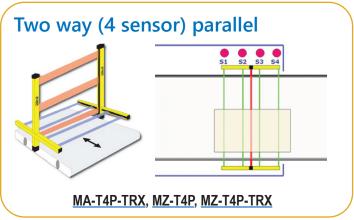
SMO-3B-TRX, SMO-4B-TRX, SMPO-3B-TRX, SMPO-4B-TRX











With Muting Arm/Brackets

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

or

Muting Brackets:

MZ-L2XP

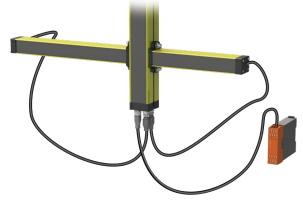
MZ-T2X

MZ-T4P

MZ-L2XP-TRX

MZ-T2X-TRX

MZ-T4P-TRX





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

Light Curtains: <u>SMO-3B</u> SMO-4B

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)

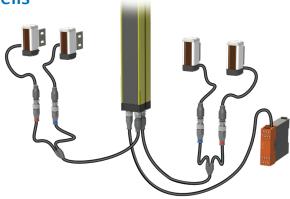
Cable
M12 12-pin cable
(See recommended items for cabling)

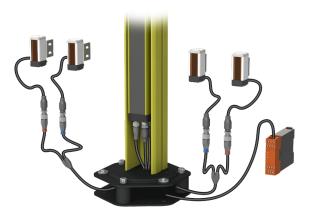
With Muting Photocells

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 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)



Features

- Integrated muting functions
- Pre-configured and pre-wired muting arms and muting brackets (sold separately)
- Hardware or software configuration options
- Bright LED status and muting lamp
- Status display on unit
- Fully scalable
- Passive retro-reflective elements available (TRX)

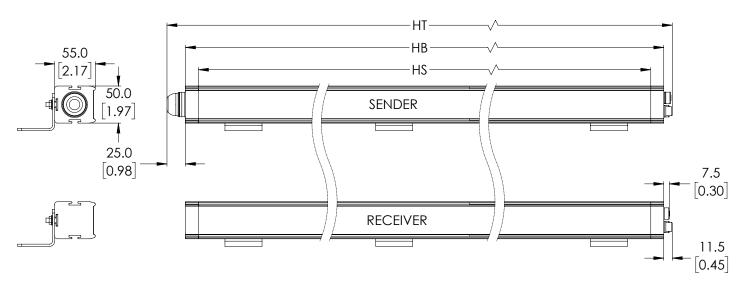
Benefits of Software Configurable Models (SMPO-xxx)

- Upload/download settings
- Specify muting parameters
- Utilize up to two partial muting configurations
- Check and validate programmable configuration
- · Light curtain status and monitoring
- Free configuration software

Ree	ReeR Safegate Light Curtains – Body Detection With Muting Functions – Selection Chart											
Part Number	Price	Protective Height Hs mm [in]	Housing Height Hb mm [in]	Total Height Ht mm [in]	Number of Beams	PFHd	Response Time [ms]	MTTFd [years]	DCavg	Weight kg [lb]	Resolution mm [in]	Dimensional Drawing
					Sender and F	Receiver Pa	ir					
			Hard	lware configu	ration with in	tegrated sta	atus and muti	ing LED				
SMO-3B		810 [31.89]	974 [38.33]	1010 [39.76]	3	9.63E-09	5.5	262.4	98.5%	6.08 [13.40]	400 [15.75]	<u>PDF</u>
SMO-4B		910 [35.83]	1073 [42.24]	1110 [43.70]	4	1.03E-08	5.5	253.3	98.4%	6.56 [14.46]	300 [11.81]	<u>PDF</u>
			Hardware	or software c	onfiguration v	vith integra	ted status an	d muting L	LED			
SMPO-3B		810 [31.89]	974 [38.33]	1010 [39.76]	3	9.63E-09	5.5	262.4	98.5%	6.08 [13.40]	400 [15.75]	PDF
SMPO-4B		910 [35.83]	1073 [42.24]	1110 [43.70]	4	1.03E-08	5.5	253.3	98.4%	6.56 [14.46]	300 [11.81]	PDF
					Active and I	Passive Pail	r					
			Hard	lware configu	ration with in	tegrated sta	atus and muti	ing LED				
SMO-3B-TRX		810 [31.89]	935 [36.79]	970 [38.19]	3	7.58E-09	5.5	401.0	98.2%	5.98 [13.18]	400 [15.75]	PDF
SMO-4B-TRX		910 [35.83]	1035 [40.73]	1070 [42.13]	4	7.68E-09	5.5	399.4	99.2%	6.54 [14.42]	300 [11.81]	PDF
	Hardware or software configuration with integrated status and muting LED											
SMPO-3B-TRX		810 [31.89]	935 [36.79]	970 [38.19]	3	7.58E-09	5.5	401.0	98.2%	5.98 [13.18]	400 [15.75]	PDF
SMPO-4B-TRX		910 [35.83]	1035 [40.73]	1070 [42.13]	4	7.68E-09	5.5	399.4	99.2%	6.54 [14.42]	300 [11.81]	<u>PDF</u>

Note: SMO and SMPO are designed to work with integrated muting arms, brackets, or photocells and do not work as stand-alone access barriers.

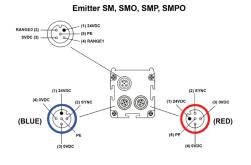
Dimensions (see table above)



Re	eeR Safe	gate Light Curtains – I	Body Detection With I	Muting Functions – S _l	pecifications	
		Sender and I	Receiver Pair	Active and	Passive Pair	
		<u>SMO-3B</u> , <u>SMO-4B</u>	<u>SMPO-3B</u> , <u>SMPO-4B</u>	SMO-3B-TRX, SMO-4B-TRX	SMPO-3B-TRX, SMPO-4B-TRX	
Supply Voltage)	24VDC	; ±20%	24VD0	C ±20%	
Safety Outputs	(OSSDs)	2 PNP – 400r	mA @ 24VDC	2 PNP – 400	mA @ 24VDC	
Status Outputs	3	1 PNP – 100r	mA @ 24VDC	1 PNP – 100	mA @ 24VDC	
Operating Tem	perature	-30°C to 55°C [-22°F to 131°F]	-30°C to 55°C	[-22°F to 131°F]	
LED Status Lamp		LED indication of Muting and Curtain Status on RX Curtain	LED indication of Muting, Curtain Status, and Override on RX Curtain	LED indication of Muting and Curtain Status on Active Curtain	LED indication of Muting, Curtain Status, and Override on Receiver Curtain	
	Type 4	EN 61496-1:2013	IEC 61496-2:2013	EN 61496-1:2013	IEC 61496-2:2013	
Safety Category	SIL3	61508-4	` '	` ´ ´ 61508-	2: (ed.2) IEC 61508-3: (ed.2) IEC 4: (ed.2)	
	PLe	EN ISO 13			849-1:2015	
	CAT4	EN ISO 13			849-1:2015	
CCF		80			0%	
Degree of Prot	ection	IP65 ar	· · ·	IP65 a	nd IP67	
Working Range	e		3.12 ft] low 9.37 ft] high ion Chart on next page)	0-8 m [0	-26.25 ft]	
Power Consun	nption	Transmitter: 1W	/; Receiver: 2W	3	W	
Connections		Power on TX: N Power on RX: M Muting sensor connectors/muting l ferr	//12 12-pin male lamp/configuration: Two M12 5-pin	Power on Active: M12 12-pin male Muting sensor connectors/muting lamp/configuration: Two M12 5-pin female		
EDM Input		Available on F	RX, selectable	Available on Active, selectable		
Restart Auto/M	lanual	Available on F	RX, selectable	Available on Active, selectable		
Test Input		Available on 1	ΓX, selectable	Not av	vailable	
Configuration		Hardware on RX connector	Hardware or software with USB	Hardware on active element connector	Hardware or software with USB	
Conductor req	uirements	20AWG if length is les 17AWG if length is between 50n	n [164.04 ft] and 100m [328.1 ft]	20AWG if length is less than 50m [164.04 ft] 17AWG if length is between 50m [164.04 ft] and 100m [328.1 ft]		
Max Connection	n Length	100m [3	328.1 ft]	100m [328.1 ft]	
Current Rating for Muting Sen	sors		mA	50mA		
Muting Lamp C		24VDC, 0	0.5 to 5 W	24VDC, 0.5 to 5 W		
Muting Signal I Time (Sensors)))ms	100ms		
Muting Signal Levels (Sensor		<5VDC: CI 11-30 VDC:Ac	ear Sensor tuated Sensor		lear Sensor ctuated Sensor	
Time Out Mutir	ng	30s 9h (non-sequential) Can be excluded (sequential)	Configurable via software	30s 9h (non-sequential) Can be excluded (sequential)	Configurable via software	
Muting Overrio	le	Selectable by pulse or by action maintained	Selectable by pulse or by action maintained; configurable via software	Selectable by pulse or by action maintained	Selectable by pulse or by action maintained; configurable via software	
Override Max 1	Timeout	15m (renewable)	15m (renewable) software configurable	15m (renewable) 15m (renewable) software configurable		
Maximum Num Consecutive O		3	0	3	30	
Muting Logic		Crossed beams or sequential	Fully configurable with ReeR software	Crossed beams or sequential	Fully configurable with ReeR software	
Partial Muting		NA	Possibility to interrupt only a selected number of beams	NA	Possibility to interrupt only a selected number of beams	
Tolerance Time Sensors 1 and		4s	2 to 5 s Configurable via software	4s	2 to 5 s Configurable via software	
Muting Enable		Pin on main connector, disable	d if not required and monitored	Pin on main connector, disable	ed if not required and monitored	

Pin outs for SMO-3B, SMO-4B, SMPO-3B and SMPO-4B

Sender



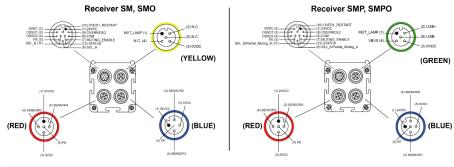
	RANGE SELECTION / TEST M12 5 PIN MALE CONNECTOR						
Pin	Color	Signal	In/Out	Description			
1	Brown	24VDC	-	24VDC power supply			
2	White	RANGE0	Input	Range/Test selection (see chart below)			
3	Blue	0VDC	-	0VDC power supply			
4	Black	RANGE1	Input	Range/Test selection (see chart below)			
5	Gray	PE	-	Ground connection			

RANGE / TEST SELECTION						
Pin 2 Pin 4 Function						
24DC	0VDC	LOW range				
0VDC	24DC	HIGH range				
0VDC	0VDC	SAFEGATE in TEST mode				
24VDC	24DC	Not allowed				

SENSORS 1-2 M12 5-PIN FEMALE CONNECTOR (BLUE) In/Out Pin Color Signal Description Brown 24VDC 24VDC sensors power supply White SYNC Output M5 arms synchronisation 3 Blue 0VDC 0VDC Black 0VDC 0VDC Gray PΕ Ground connection

N	SENSORS 3-4 M12 5-PIN FEMALE CONNECTOR (RED)							
Pin	Color	Signal	In/Out	Description				
1	Brown	24VDC	-	24VDC sensors power supply				
2	White	SYNC	Output	M5 arms synchronisation				
3	Blue	0VDC	-	0VDC				
4	Black	OVDC	-	0VDC				
5	Gray	PE	-	Ground connection				

Receiver



		PRIMARY M1	2 12-PIN MAI	LE CONNECTOR
Pin	Color	Signal	In/Out	Description
1	Brown	24VDC	-	24VDC power supply
2	Blue	0VDC	-	0VDC power supply
3	White	OSSD1	Output	Cofety static cutouts
4	Green	OSSD2	Output	Safety static outputs
5	Pink	PE	-	Ground connection
		SEL_A		Muting configuration
6	6 Yellow	PARIAL_MUTING_A (see note)	Input	Partial muting control
7	Black	MUT_ENABLE	Input	External muting enable
8	Gray	EDM	Input	K1/K2 feedback
9	Red	OVERRIDE2	Input	Override request
10	Durala	OVERRIDE1	lanut	Override request
10	Purple	RESTART	Input	Restart interlock
		SEL_B		Muting configuration
11	Grey/Pink	PARTIAL_MUTING_B (see note)	Input	Partial muting control
12	Red/Blue	STATUS	Output	System status

NOTE: PARTIAL_MUTING signal is present on programmable models (SMP/SMPO)

	SENSORS 1-2 – M12 5-PIN FEMALE CONNECTOR (BLUE)							
Pin	Color	Signal	In/Out	Description				
1	Brown	24VDC	-	24VDC power supply				
2	White	SENSOR2	Input	SENSOR2 status				
3	Blue	0VDC	-	0VDC				
4	Black	SENSOR1	Input	SENSOR1 status				
5	Gray	PE	-	Ground connection				

	SENSORS 3-4 – M12 5-PIN FEMALE CONNECTOR (RED)							
Pin	Color	Signal	In/Out	Description				
1	Brown	24VDC	-	24VDC power supply				
2	White	SENSOR4	Input	SENSOR4 status				
3	Blue	0VDC	-	0VDC				
4	Black	SENSOR3	Input	SENSOR3 status				
5	Gray	PE	-	Ground connection				

	USB/MUTING LAMP CONNECTOR								
Pin	Color	SMO Signal (Yellow)	SMPO Signal (Green)	IN/OUT	Description				
1	Brown	MUT_LAMP	MUT_LAMP	Output	Active muting 24VDC				
2	White	NC	USB+	In/Out	-				
3	Blue	0VDC	0VDC	-	0VDC				
4	Black	NC	VBUS	Input	5VDC				
5	Gray	NC	USB-	In/Out	-				

ReeR Safegate Light Curtains – Muting Arms

Features

- Pre-configured and pre-wired muting arms and muting brackets
- MZ series offers five photo beams per sensor, useful for sensing unconventional objects (only one beam on the TRX versions)
- One way (parallel)
- One way (crossed)
- Two way (parallel)
- Two way (crossed)









	ReeR Safegate Light Curtains – Muting Arms Selection Chart								
Part Number	Price	Description	Working Range (m [ft])	Dimensional Drawing					
MA-L2X		Muting arm, sender/receiver pair, 2 crossed beams, one way	1-2.5 [3.28-8.20]	<u>PDF</u>					
MA-T2X		Muting arm, sender/receiver pair, 2 crossed beams, two way	1-2.5 [3.28-8.20]	<u>PDF</u>					
MA-L2P-TRX		Muting arm, active/passive pair, 2 parallel beams, one way 0-3.5 [0-11.48] PDF							
MA-T4P-TRX		Muting arm, active/passive pair, 4 parallel beams, two way	0-3.5 [0-11.48]	PDF					
MZ-T2X		Bracket with M5, sender/receiver pair, 2 crossed beams, two way	1-3.5 [3.28-11.48]	<u>PDF</u>					
MZ-T4P		Bracket with M5 sender/receiver pair, 4 parallel beams, two way	0-3.5 [0-11.48]	PDF					
MZ-L2XP		Bracket with M5, sender/receiver pair, 2 crossed or parallel beams, one way	0-3.5 [0-11.48] when parallel 1-3.5 [3.28-11.48] when crossed	PDF					
MZ-L2XP-TRX		Bracket with M-TRX, active/passive pair, 2 crossed or parallel beams, one way	0-3.5 [0-11.48] when parallel 1-3.5 [3.28-11.48] when crossed	PDF					
MZ-T2X-TRX		Bracket with M-TRX, active/passive pair, 2 crossed beams, two way	1-3.5 [3.28-11.48]	<u>PDF</u>					
MZ-T4P-TRX		Bracket with M-TRX, active/passive pair, 4 parallel beams, two way	0-3.5 [0-11.48]	<u>PDF</u>					

ReeR Muting and Automation Photocells

ReeR Muting and Automation Photocells – Selection Chart									
Part Number	Price	Number of Beams	Sensing Range	Coding	Dimensional Drawing				
	Emitter/Receiver Versions								
<u>M5-A</u>		5	0 to 3.5 m [0 to 11.48 ft]	Α	<u>PDF</u>				
<u>M5-B</u>		5	0 to 3.5 m [0 to 11.48 ft]	В	PDF				
		Re	eflector Versions						
M-TRX-A		1	0 to 5 m [0 to 16.40 ft]*	Α	PDF				
M-TRX-B		1	0 to 5 m [0 to 16.40 ft]*	В	<u>PDF</u>				

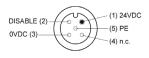


M5-A / M5-B

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

	Ree	R Muting and Automation	Photocells – Specificat	ions	
Model		Micron M5 Emitter	Micron M5 Receiver	M TRX A / M TRX B	
Power Supply			24VDC ± 20%		
Power Consumption at 24	VDC	1	W	0.2 W	
Number of Beams			5	1	
				0 to 2.5 m [0 to 8.20 ft] with C3F10 reflector	
Working Range		0-3.5 m [0	to 11.48 ft]	0 to 3.5 m [0 to 11.48 ft] with <u>C3F8</u> reflector	
				0 to 3 m [0 to 9.84 ft] with <u>CD8</u> reflector	
Beams Pitch		10mm	[0.39 in]	NA	
Immunity to Ambient Ligh	nt	>10,000	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] with M12 5 pin connector	Pigtail 90cm [2.95 ft] with M12 5 pin connector	Pigtail 90cm [2.95 ft] with M12 5 pin connector	
MTTF _d		414.02 years	414.02 years	1759.31 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 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	Grour	Ground connection					

Receiver

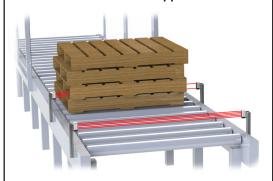


	TRX
n.c. (2) - 0VDC (3) -	(1) 24VDC (5) PE (4) OUT

	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 24VDC=Area Free Obstructed						
5	Gray	PE	Ground connection						

	M TRX								
Pin	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 24VDC=Area Free Obstructed						
5	Gray	PE	Ground connection						

Emitter/Receiver Application



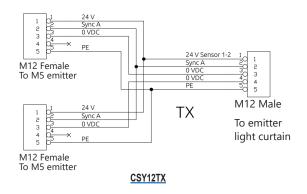
M5 photocells have five beams that are sent out by the emitter. If any one of the five beams is blocked, then the receiver's status signal will change to signify that there is an object in front of the photocell. This is particularly useful when there is a need to detect irregularly shaped items.

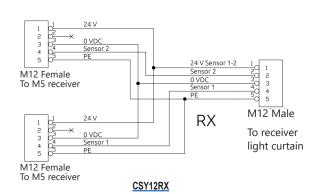
ReeR Safegate Light Curtain Accessories

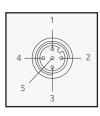
Safegate Light Curtains Accessories Overview										
Part Number	Price	Description	Use With	Dimensional Drawing						
	Reflectors									
<u>C3F10</u>		ReeR reflector, rectangular, 30 x 116 mm [1.18 x 4.57 in].	M-TRX-A or M-TRX-B	<u>PDF</u>						
<u>C3F8</u>		ReeR reflector, rectangular, 30 x 78 mm, [1.18 x 3.07 in] with bracket.	M-TRX-A or M-TRX-B	<u>PDF</u>						
<u>CD8</u>		ReeR reflector, round, 84mm [3.31 in].	M-TRX-A or M-TRX-B	<u>PDF</u>						
		Mounting Brackets								
SFB-4SG		ReeR mounting bracket, replacement, standard, zinc plated steel. Package of 4. Mounting hardware included.	ReeR Safegate Light Curtains	PDF						
SFB-6SG	ReeR mounting bracket, replacement, standard, zinc plated steel. Package of 6. Mounting hardware included.		ReeR Safegate Light Curtains	PDF						
		Cables								
CS12USB		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		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		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



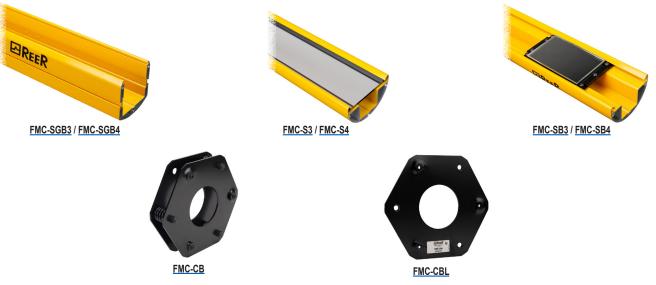




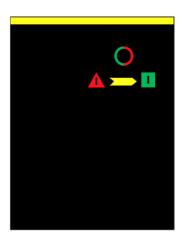
ReeR Safegate Light Curtain Accessories

		Safegate Light Curtains Accessories	Overview						
Part Number	Price	Description	Use With	Dimensional Drawing					
Protective Columns*									
FMC-SGB3		ReeR protective column, 1200mm housing.	SMO-3B SMPO-3B SMO-3B-TRX SMPO-3B-TRX S-3B S-3B-TRX	PDF					
FMC-SGB4		ReeR protective column, 1330mm housing.	SMO-4B SMPO-4B SMO-4B-TRX SMPO-4B-TRX S-4B S-4B-TRX	PDF					
		Mirror Columns*							
FMC-S3		ReeR single mirror column, 1200mm housing, 1198mm mirror(s).	SMO-3B SMPO-3B SMO-3B-TRX SMPO-3B-TRX S-3B S-3B-TRX	PDF					
FMC-S4		ReeR single mirror column, 1330mm housing, 1328mm mirror(s).	SMO-4B SMPO-4B SMO-4B-TRX SMPO-4B-TRX S-4B S-4B-TRX	PDF					
FMC-SB3		ReeR three mirror column, 1200mm housing, (3) 150mm mirror(s).	SMO-3B SMPO-3B SMO-3B-TRX SMPO-3B-TRX S-3B S-3B-TRX	<u>PDF</u>					
FMC-SB4		ReeR four mirror column, 1330mm housing, (4) 150mm mirror(s).	SMO-4B SMPO-4B SMO-4B-TRX SMPO-4B-TRX S-4B S-4B-TRX	PDF					
		Column Base							
FMC-CB		ReeR column base, 202 x 224 x 55 mm housing. Mounting hardware included.	FMC-Sx	<u>PDF</u>					
FMC-CBL		ReeR column base, 202 x 224 x 37 mm housing. Mounting hardware included.	FMC-Sx	<u>PDF</u>					

^{*} Column base must be purchased separately

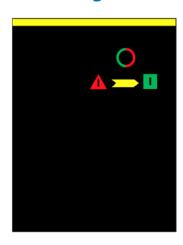


Emitter (non TRX models) LED Functions



TRI-COLOR LED									
RED	YELLOW	GREEN	MEANING						
On	_	_	Power on - Initial Test						
Flashing	_	_	Fail condition						
_	On	_	Curtain under test						
-	_	On	Normal operation						

Fault Diagnostices (non TRX models)



NUMBER OF FLASHES	ERROR	POSSIBLE CAUSE POSSIBLE CAUSE	
RED	POSSIBLE CAUSE		
2	RANGE0 / RANGE1 incorrect wiring	Check pin 2 and 4 connections on the main connector	
3/4	Internal error	Contact tech support	
5	SYNC incorrect wiring	Check pin 2 connection on the sensors connectors	

Receiver/Active (All Models) - LED Functions



PRG	COM	CLR	0 🗾	MUT	OVR	S1	MEANING
Blue							Curtain programmed via USB
	Orange						Communication with active PC
	Blue						Weak signal (TRXmodels only)
	Alternating Blue/Orange						Weak signal (TRXmodels only)
		Yellow					Curtain awaiting RESTART (clear gate)
			Green				Normal operation (clear gate)
			Red				Occupied gate
			Red flashing				Detected failure (Refer to "Troubleshooting" section in User's Manual)
				Yellow			Muting active
					Yellow		Override active
					Yellow flashing		Override request
						Yellow	Sensor interrupted
Blue flashing	Orange flashing						No barrier configuration
Blue flashing	Orange flashing		Red flashing				Detected double configuration (hardware and software) – SMPO only



BREAK Occupied curtain with at least one occupied beam



FAIL Curtain in error condition



CLEAR Curtain awaiting RESTART



GUARD Normal operation condition



MUTING Muting underway



OVERRIDE (Request)

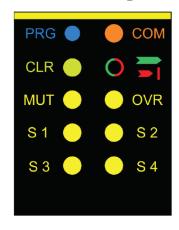


OVERRIDE (In progress)

LIGHT	MEANING		
Yellow/Green	Curtain awaiting RESTART (gate clear)		
Green	Normal operation (gate clear)		
Red	Occupied gate		
Red Flashing	Detected failure (see DIAGNOSTICS)		
Yellow	Muting active		
Yellow Flashing	Override active		
Yellow/Red	Override request		

Fault Diagnostics

NOTE regarding SMP and SMPO models: In addition to the corresponding LED indication, when the operator connects SAFEGATE to a computer via USB, a pop-up window with the error code appears on the monitor.



	LED					
0 🗾	CLR	MUT	OVR	S1	ERROR	POSSIBLE CAUSE
2					Configuration error SEL_A/SEL_B/EDM	Pin 6-8-11 connections on the RX male connector
2				2 (\$1/\$2)	Inconsistency between red and blue connector selection for S2 wiring and the physical wiring of S2	Wire S2 with the selected wiring option (red or blue connector)
3					Wrong EDM configuration	Pin 8 connections on the RX male connector
3	3				EDM feed back failure	Contact connectors EDM Power Contactors
3		3			STATUS input failure	Pin 12 connections on the RX male connector
3			3		Override1 / Override2 input failure	Pin connections9-10 on the male connector on the RX
3				3	Sensor input failure	Pin connections 2-4 on the sensor connectors
3	3	3	3		MUTING LAMP FAILURE	Connections on the auxiliary lamp connector
4					OSSD1 / OSSD2 error	3-4 pin connectors on the male connector on the RX
5					MAIN CARD ERROR	Contact tech support
5	5				MAIN CARD (EEPROM) error	Contact tech support
5			5		MAIN CARD ERROR	Contact tech support
6					MAIN CARD (Microcontroller) error	Contact tech support
6	6				Generic Default Boad Error	6-7-8-9-10-11 pin connections on the male connector on the RX
6		6			Beam error	Contact tech support
6			6		24VDC power supply overload	Eventual short-circuit on OSSD outputs
6		6	6		LAMP/STATUS over current	Short circuit on pin 12 or auxiliary lamp connector
7					Receiving beams failure	Contact tech support
8					Interfering Emitter Detected	Verify the presence of another curtain not correctly positioned. Refer to "Multiple Systems" section of User's Manual.

Safety Products



Warning: Safety products sold by AutomationDirect are Safety components only. The purchaser/installer is solely responsible for the application of these components and ensuring all necessary steps have been taken to assure each application and use meets all performance and applicable safety requirements and/or local, national and/or international safety codes as required by the application. AutomationDirect cannot certify that our products, used solely or in conjunction with other AutomationDirect or other vendors' products, will assure safety for any application. Any person using or applying any products sold by AutomationDirect is responsible for learning the safety requirements for their individual application and applying them, and therefore assumes all risks, and accepts full and complete responsibility, for the selection and suitability of the product for their respective application.

AutomationDirect does not provide design or consulting services, and cannot advise whether any specific application or use of our products would ensure compliance with the safety requirements for any application.