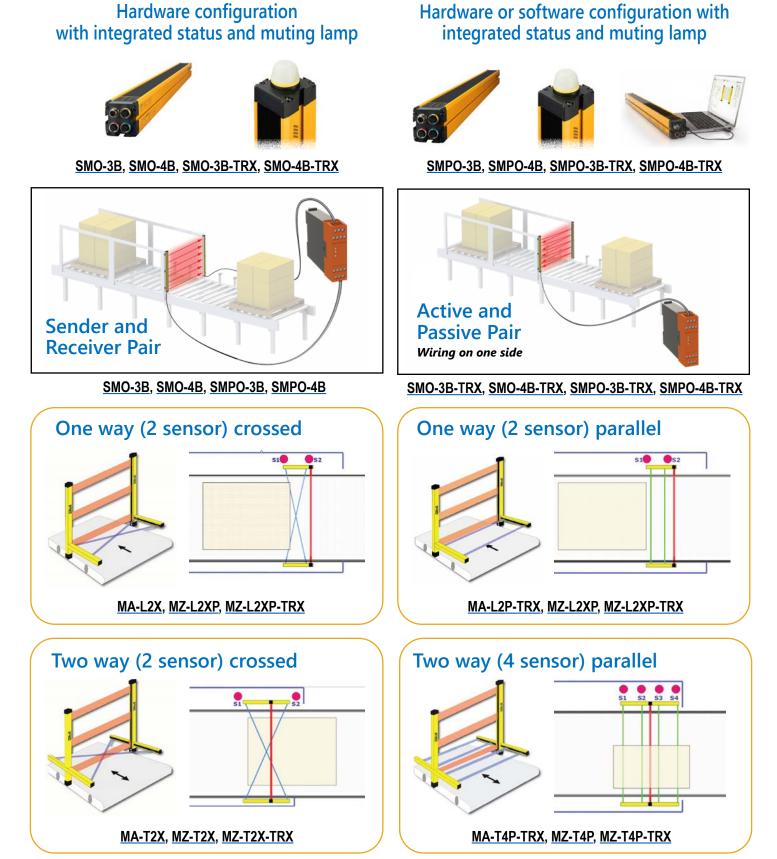
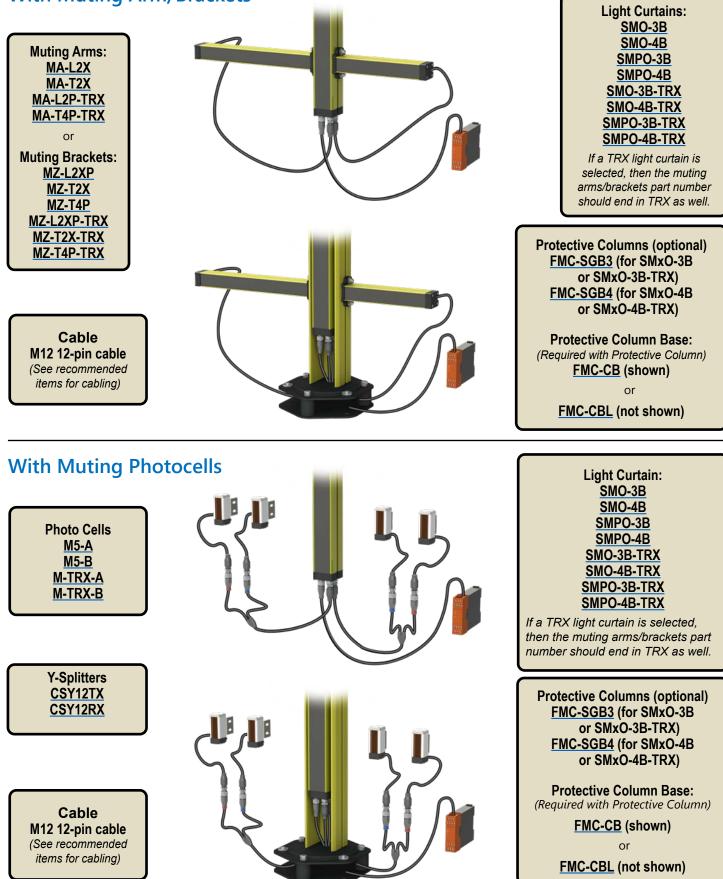
Safegate Type 4 access control barriers provide the ideal solution for protection in a wide range of high-risk industrial applications, in particular those requiring a high level of integration of the muting functions. Safegate greatly simplifies seamless integration of muting sensors with light curtain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



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1-800-633-0405 **ReeR Safegate Light Curtains – Body Protection**

With Muting Arm/Brackets



www.automationdirect.com



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)

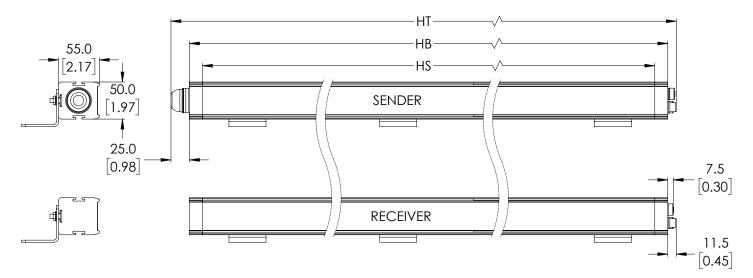
Benefits of Software Configurable Models (SMPO-xxx)

- 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 Protection 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 H	Receiver Pa	ir					
			Hard	lware configu	ration with in	tegrated sta	atus and muti	ing LED				
SMO-3B	\$;004oqd:	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
SMO-4B	\$;004opv:	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
			Hardware	or software c	onfiguration v	vith integra	ted status an	d muting L	.ED			
SMPO-3B	\$;004opx:	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	\$;004opy:	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 mut	ing LED				
SMO-3B-TRX	\$;004opz:	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	\$;;004op]:	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	\$;004op#:	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	\$;;004op!:	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

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

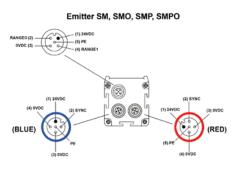
Dimensions (see table above)



			Body Protection With			
			Receiver Pair		Passive Pair	
		<u>SMO-3B</u> , <u>SMO-4B</u>	<u>SMPO-3B,</u> <u>SMPO-4B</u>	<u>SMO-3B-TRX, SMO-4B-TRX</u>	<u>SMPO-3B-TRX, SMPO-4B-TRX</u>	
Supply Voltage			C ±20%		C ±20%	
Safety Outputs	. ,	2 PNP – 400r			mA @ 24VDC	
Status Outputs		1 PNP – 100r			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 La	тр	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, Curtair Status, and Override on Receive 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		849-1:2015		849-1:2015	
	CAT4		849-1:2015		849-1:2015	
CCF		80		-	0%	
Degree of Prot	ection	IP65 ar		IP65 a	nd IP67	
Working Range	9	0-4 m [0-1: 0-12 m [0-3 (See Range/Test Select	9.37 ft] high	0-8 m [()-26.25 ft]	
Power Consun	nption	Transmitter: 1W	/; Receiver: 2W	3	W	
Connections		Power on TX: I Power on RX: N Muting sensor connectors/muting 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	anual	Available on F	RX, selectable	Available on Active, selectable		
Test Input		Available on T	TX, selectable	Not available		
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	s than 50m [164.04 ft] 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 Connectio	•	100m [3	328.1 ft]	100m [328.1 ft]		
Current Rating for Muting Sen	sors		mA	50mA		
Muting Lamp C		24VDC, 0).5 to 5 W	24VDC, 0.5 to 5 W		
Muting Signal I Time (Sensors,		100)ms	100ms		
Muting Signal Levels (Sensor	Logic rs)	<5VDC: Cl 11-30 VDC:Ac	ear Sensor tuated Sensor	<5VDC: Clear Sensor 11-30 VDC:Actuated 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 Overria	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 l maintained software		
Override Max 1	Timeout	15m (renewable)	15m (renewable) software configurable	15m (renewable) 15m (renewable) software configurable		
Maximum Num Consecutive O		3	0		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, disabled if not required and monitored		

ReeR Safegate Light Curtains – Body Protection Pin outs for <u>SMO-3B</u>, <u>SMO-4B</u>, <u>SMPO-3B</u> and <u>SMPO-4B</u>

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	lack RANGE1 Input		Range/Test selection (see chart below)	
5	Gray	PE	-	Ground connection		

RANGE / TEST SELECTION					
Pin 2 Pin 4 Function					
24DC OVDC		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 1 Brown 24VDC 24VDC sensors power supply 2 White SYNC Output M5 arms synchronisation 3 Blue 0VDC 0VDC -4 Black 0VDC 0VDC -

-

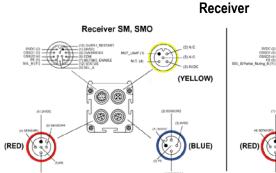
5

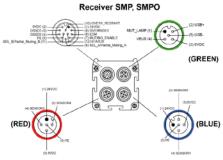
Gray

ΡE

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		

Ground connection





PRIMARY M12 12-PIN MALE CONNECTOR

Color	Signal	In/Out	Description					
Brown	24VDC	-	24VDC power supply					
Blue	0VDC	-	0VDC power supply					
White	OSSD1	Output	Sofoty statio outputs					
Green	OSSD2	Output	Safety static outputs					
Pink	PE	-	Ground connection					
	SEL_A		Muting configuration					
6 Yellow	PARIAL_MUTING_A (see note)	Input	Partial muting control					
Black	MUT_ENABLE	Input	External muting enable					
Gray	EDM	Input	K1/K2 feedback					
Red	OVERRIDE2	Input	Override request					
D	OVERRIDE1	lanut	Override request					
Fulple	RESTART	input	Restart interlock					
	SEL_B		Muting configuration					
11 Grey/Pink	PARTIAL_MUTING_B (see note)	Input	Partial muting control					
Red/Blue	STATUS	Output	System status					
	Brown Blue White Green Pink Yellow Black Gray Red Purple Grey/Pink	Brown 24VDC Blue 0VDC White OSSD1 Green OSSD2 Pink PE Yellow SEL_A PARIAL_MUTING_A (see note) A Black MUT_ENABLE Gray EDM Purple OVERRIDE2 Purple RESTART SEL_B PARTIAL_MUTING_B (see note)	Brown 24VDC Blue 0VDC White OSSD1 Output Green OSSD2 Output Pink PE Yellow PARIAL_MUTING_A (see note) Input Black MUT_ENABLE Input Gray EDM Input Red OVERRIDE2 Input Purple OVERRIDE1 Input RESTART SEL_B Input Grey/Pink PARTIAL_MUTING_B (see note) Input					

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	in 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	-				

1-800-633-0405 **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	art Number Price Description			Dimensional Drawing					
MA-L2X	\$04op?:	Muting arm, sender/receiver pair, 2 crossed beams, one way	1-2.5 [3.28-8.20]	PDF					
<u>MA-T2X</u>	\$04oq0:	Muting arm, sender/receiver pair, 2 crossed beams, two way	1-2.5 [3.28-8.20]	PDF					
MA-L2P-TRX	\$;04op,:	Muting arm, active/passive pair, 2 parallel beams, one way	0-3.5 [0-11.48]	PDF					
MA-T4P-TRX	\$04oq2:	Muting arm, active/passive pair, 4 parallel beams, two way	0-3.5 [0-11.48]	PDF					
<u>MZ-T2X</u>	\$04oq5:	Bracket with M5, sender/receiver pair, 2 crossed beams, two way	1-3.5 [3.28-11.48]	PDF					
<u>MZ-T4P</u>	\$04oq8:	Bracket with M5 sender/receiver pair, 4 parallel beams, two way	0-3.5 [0-11.48]	PDF					
<u>MZ-L2XP</u>	\$04oq3:	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					
<u>MZ-L2XP-TRX</u>	\$04oq4:	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	\$04oq6:	Bracket with M-TRX, active/passive pair, 2 crossed beams, two way	1-3.5 [3.28-11.48]	PDF					
MZ-T4P-TRX	\$04oq9:	Bracket with M-TRX, active/passive pair, 4 parallel beams, two way	0-3.5 [0-11.48]	PDF					

1-800-633-0405 **ReeR Muting and Automation Photocells**

Re	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>	\$04oqa:	5	0 to 3.5 m [0 to 11.48 ft]	А	PDF				
<u>M5-B</u>	\$04oqb:	5	0 to 3.5 m [0 to 11.48 ft]	В	PDF				
		Re	flector Versions						
<u>M-TRX-A</u>	\$04oqc:	1	0 to 5 m [0 to 16.40 ft]*	А	PDF				
<u>M-TRX-B</u>	\$-04oqj:	1	0 to 5 m [0 to 16.40 ft]*	В	PDF				

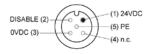


M5-A / M5-B

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

ReeR Muting and Automation Photocells – Specifications								
Model		Micron M5 Emitter	Micron M5 Receiver	<u>M-TRX-A / M-TRX-B</u>				
Power Supply			24VDC ± 20%					
Power Consumption at 24	VDC	1\	N	0.2 W				
Number of Beams		5	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 C3F8 reflector				
Beams Pitch		10mm [0.39 in]	NA				
Immunity to Ambient Ligh	t	>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

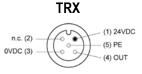


Receiver



Neceivei	
n.c.(2) DC (3) (1) 24VDC (5) PE (4) OUT	

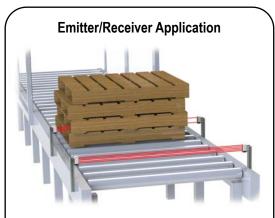




	M5 Emitter									
Pin Color Signal Description										
1	Brown	24VDC	24VDC power supply							
2	White	DISABLE	0VDC=ENABLE 24VDC=DISABI							
3	Blue	0VDC	0VDC power supply							
4	Black	NA	Not connected							
5	Gray	PE	Ground connection							

	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 24VDC=Area Free Obstructed						
5	Gray	PE	Ground connection						



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.

1-800-633-0405 **ReeR Safegate Light Curtain Accessories**

		Safegate Light Curtains Accessories Overview			
Part Number	Price	Use With	Dimensional Drawing		
		Reflectors			
<u>C3F10</u>	\$-4oql:	ReeR reflector, rectangular, 30 x 116 mm [1.18 x 4.57 in].	M-TRX-A or M-TRX-B	PDF	
<u>C3F8</u>	\$4oqn:	ReeR reflector, rectangular, 30 x 78 mm, [1.18 x 3.07 in] with bracket.	M-TRX-A or M-TRX-B	PDF	
<u>CD8</u>	\$4oqo:	ReeR reflector, round, 84mm [3.31 in].	M-TRX-A or M-TRX-B	PDF	
		Mounting Brackets			
<u>SFB-4SG</u>	\$;4oqt:	ReeR mounting bracket, replacement, standard, zinc plated steel. Package of 4. Mounting hardware included.	ReeR Safegate Light Curtains	PDF	
<u>SFB-6SG</u>	\$4oqu:	ReeR Safegate Light Curtains	PDF		
		Cables			
<u>CS12USB</u>	\$4oqp:	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	
<u>CSY12RX</u>	ReeR Safegate Light Curtains	NA			
CSY12TX \$40qx: S-pole, 24 VDC, PVC jacket, black, 1.3 ft [400mm] cable length, IP67. Curtains CSY12TX \$40qx: 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 Curtains					







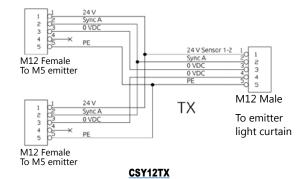


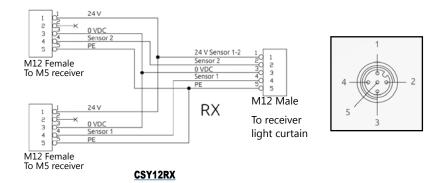
CS12USB



When four M5 muting sensors are installed with a ReeR Safegate light curtain, CSY12TX and CSY12RX Y-splitters will be required.

Pinouts

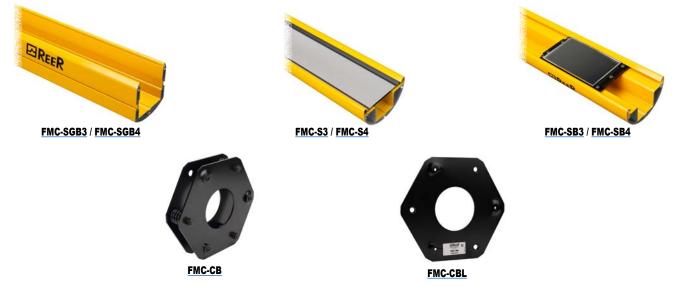




1-800-633-0405 ReeR Safegate Light Curtain Accessories

Safegate Light Curtains Accessories Overview							
Part Number	Price	Description	Use With	Dimensional Drawing			
		Protective Columns*					
FMC-SGB3	\$04oqk:	ReeR protective column, 1200mm housing.	<u>SMO-3B</u> <u>SMPO-3B</u> <u>SMO-3B-TRX</u> <u>SMPO-3B-TRX</u> <u>S-3B</u> <u>S-3B-TRX</u>	PDF			
FMC-SGB4	\$04oqe:	ReeR protective column, 1330mm housing.	SMO-4B SMPO-4B SMO-4B-TRX SMPO-4B-TRX S-4B S-4B-TRX	PDF			
		Mirror Columns*					
<u>FMC-S3</u>	\$;04oqf:	ReeR single mirror column, 1200mm housing, 1198mm mirror(s).	<u>SMO-3B</u> SMPO-3B SMO-3B-TRX <u>SMPO-3B-TRX</u> <u>S-3B</u> S-3B-TRX	PDF			
<u>FMC-S4</u>	\$04oqg:	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	\$04oqh:	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	PDF			
FMC-SB4	\$-04oqi:	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		<u>_</u>			
FMC-CB	\$04oqq:	ReeR column base, 202 x 224 x 55 mm housing. Mounting hardware included.	FMC-Sx	PDF			
FMC-CBL	\$4oqs:	ReeR column base, 202 x 224 x 37 mm housing. Mounting hardware included.	FMC-Sx	PDF			

* Column base must be purchased separately

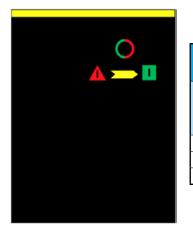


Emitter (non TRX models) LED Functions



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		
RED	POSSIBLE CAUSE	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 🌔	🛑 СОМ	CLR 🔴	0 📑	мит 🔴		S1 🔶 S2 S3 🔵 S4	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	





FAIL

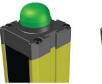
Curtain in error

condition

BREAK Occupied curtain with at least one occupied beam

CLEAR Curtain awaiting

RESTART



GUARD Normal operation condition

MUTING Muting underway



OVERRIDE

(Request)

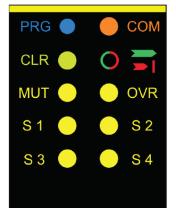
OVERRIDE (In progress)

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		

1-800-633-0405 **ReeR Safegate Light Curtains – Body Protection**

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 🔴	мит 🔴		S1 🔵 🔵 S2 S3 🔵 🔵 S4	ERROR	POSSIBLE CAUSE
2					Configuration error SEL_A/SEL_B/EDM	Pin 6-8-11 connections on the RX male connector
2				2 (S1/S2)	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.