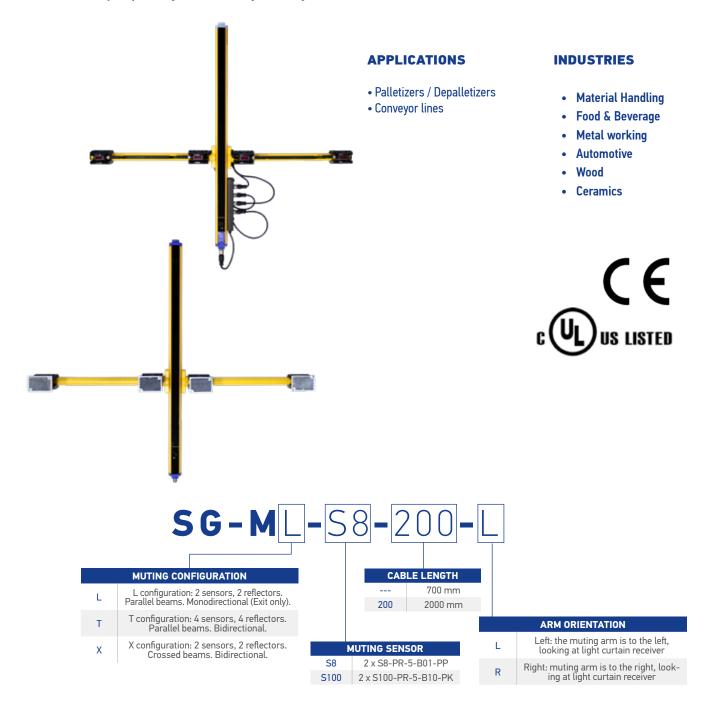
EXTERNAL SENSORS MUTING ARMS: SG-M

Modular, ready-to-use muting sensor kit for flexible installation

The SG-M muting sensors kit regulates the position and orientation of muting beams in order to adapt quickly and easily to any kind of situation.



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A flexible solution for muting

In some access guarding applications, like in palletizing/depallitizing machines, safety light curtains are muted while a load passes through their monitored area.

When the load has an irregular shape, or has holes in it, muting can end before the load has completely passed the light curtain, causing the unnecessary stop of the machine. In cases like this, the ability to regulate the position and orientation the position and orientation of muting beams with increased flexibility, allows the system to adapt quickly and easily to any kind of situation. To simplify the installation of muting sensors in these kind of applications, Datalogic has developed the new SG-M muting sensors modular Kits. The SG-M includes retroreflective photocells as muting sensors, reflectors, cylindrical metallic arms, orientable plastic brackets, cables with M12 connectors, and a connection box for the quick wiring of the sensor outputs to the safety light curtain dedicated muting connector.

The SG-M is the newest addition to a safety portfolio that includes integrated muting arms (SG-T-ARM and SG-L-ARM).

The arms with external sensors can be attached directly to the light curtains of SG Series (fig. 1) or to their protective stands SG-PSB (fig. 2).

With SG-M, three standard configurations for muting beams can be easily installed: T Muting (fig. 3), L Muting (fig. 4 and 5) and X Muting (fig. 6).

Sensors provided with the kit are retroreflective, dark on photocells, and come in two versions:

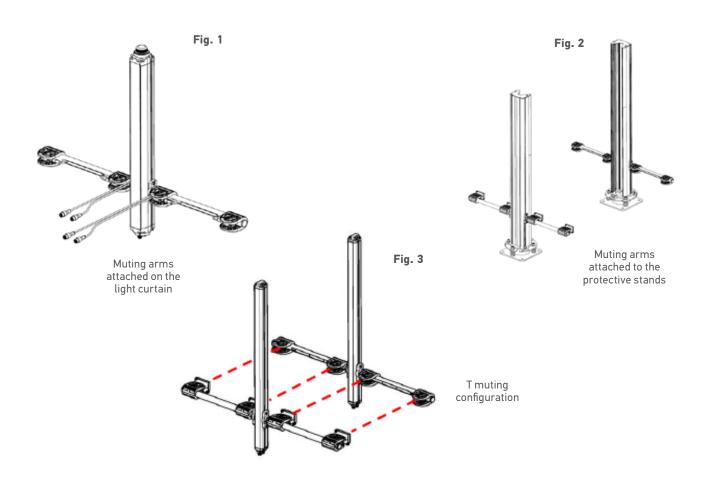
- S100-PR-5-B10-PK, for standard applications with no specific requirements
- S8-PR-5-B01-PP for applications where beam intensity reulation is required.

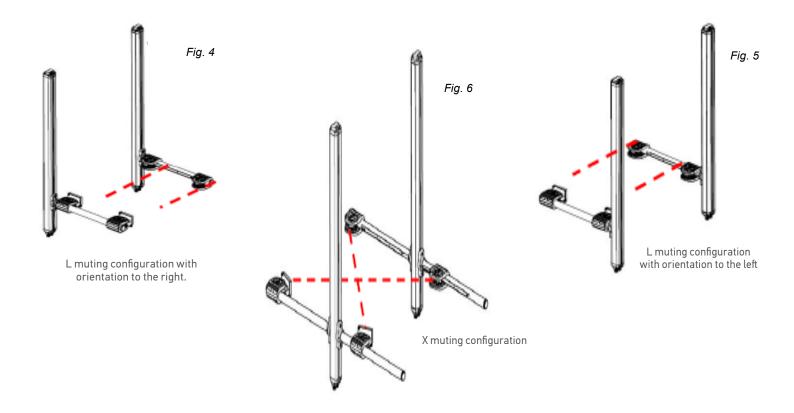
On the opposite side of the sensors, an ù reflector is mounted.

Sensors and reflectors can be positioned along the arms and orientated both horizontally and vertically thanks to their brackets shape.

Sensors have detachable cables (in T and L muting kits) or pigtails. Both cables have an M12 connector M12 connector, for a quick connection to the safety light curtains through a dedicated connection box (SG-M-CB), or to an external safety controller through normal cables.

The cables are protected inside the metallic arms and have different lengths (700 and 2000 mm), for easy installation on the light curtains, or on the protective stands.





SG-M MUTING KITS

The following table shows the characteristics, the sensors and the cables included in any SG-M muting configuraion kit in addition to the mechanical parts (arms and brackets) necessary to connect them to the profiles of the SG family safety light curtains.

MUTING CONFIGURATION	MODEL	DIRECTION *1	SENSOR ADJUSTMENT TRIMMER	MIN/MAX DISTANCE *4	SENSORS*2	CABLES *3	ORDER NUMBER
L Muting	SG-ML-S100-L	left side	No	0.2 3 m	2 x S100-PR-5-B10-PK	2 x CS-M1-02-B-007 (700 mm)	95ASE2620
	SG-ML-S100-R	right side	No	0.2 3 m	2 x S100-PR-5-B10-PK	2 x CS-M1-02-B-007 (700 mm)	95ASE2430
	SG-ML-S100-200-L	left side	No	0.2 3 m	2 x S100-PR-5-B10-PK	2 x CS-M1-02-B-02 (2000 mm)	95ASE2610
	SG-ML-S100-200-R	right side	No	0.2 3 m	2 x S100-PR-5-B10-PK	2 x CS-M1-02-B-02 (2000 mm)	95ASE2400
	SG-ML-S8-L	left side	Yes	0.2 3 m	2 x S8-PR-5-B01-PP	2 x CS-M1-02-B-007 (700 mm)	95ASE2600
	SG-ML-S8-R	right side	Yes	0.2 3 m	2 x S8-PR-5-B01-PP	2 x CS-M1-02-B-007 (700 mm)	95ASE2370
	SG-ML-S8-200-L	left side	Yes	0.2 3 m	2 x S8-PR-5-B01-PP	2 x CS-M1-02-B-02 (2000 mm)	95ASE2590
	SG-ML-S8-200-R	right side	Yes	0.2 3 m	2 x S8-PR-5-B01-PP	2 x CS-M1-02-B-02 (2000 mm)	95ASE2340
	SG-MT-S100		No	0.2 3 m	4 x S100-PR-5-B10-PK	4 x CS-M1-02-B-007 (700 mm)	95ASE2440
TM .:	SG-MT-S100-200		No	0.2 3 m	4 x S100-PR-5-B10-PK	4 x CS-M1-02-B-02 (2000 mm)	95ASE2410
T Muting	SG-MT-S8		Yes	0.2 3 m	4 x S8-PR-5-B01-PP	4 x CS-M1-02-B-007 (700 mm)	95ASE2380
	SG-MT-S8-200		Yes	0.2 3 m	4 x S8-PR-5-B01-PP	4 x CS-M1-02-B-02 (2000 mm)	95ASE2350
	SG-MX-S100		No	0.45 3 m	2 x S100-PR-2-B10-PK SV4973	pigtail 700 mm	95ASE2450
VMadia	SG-MX-S100-200		No	0.45 3 m	2 x S100-PR-2-B10-PK SV4974	pigtail 2000 mm	95ASE2420
X Muting	SG-MX-S8		Yes	0.6 3 m	2 x S8-PR-5-B01-PP SV4973	pigtail 700 mm	95ASE2390
	SG-MX-S8-200		Yes	0.6 3 m	2 x S8-PR-5-B01-PP SV4974	pigtail 2000 mm	95ASE2360

NOTE

- *1 "Left side" and "Right side", related to L muting kits, refers to the position of the arm looking towards the receiver of the light curtain.

 "Left side" and "Right side" kits differ only mechanically, in order to keep the regulating screws upside.

 *2 In X Muting Kits, special versions of photocells with pigtails and M12 connectors have been used.

 *3 Cables used in T and L muting kits have M8 connectors on the sensors side, and M12 connectors at the external side.

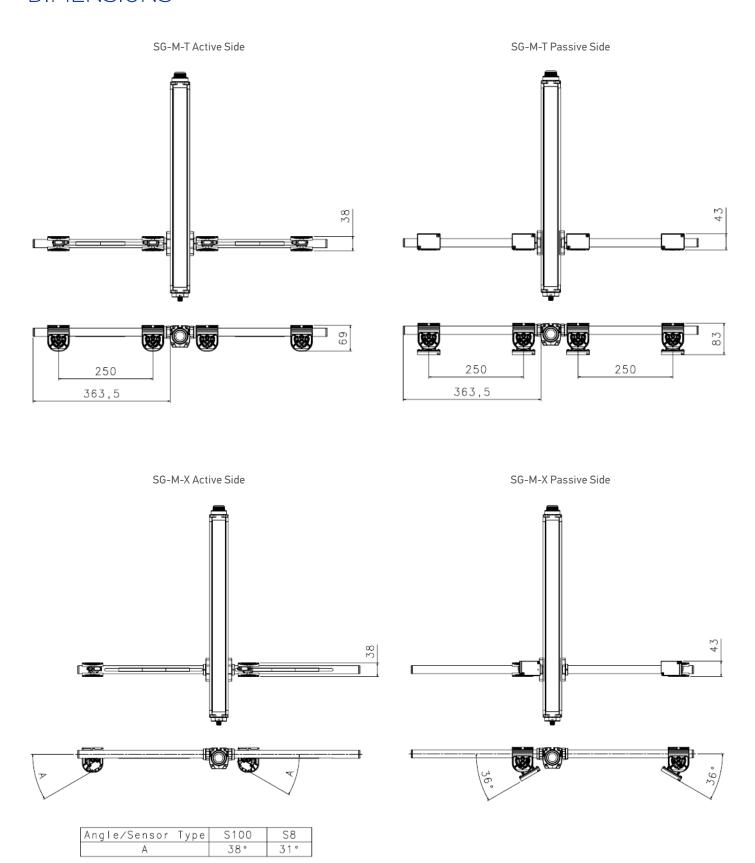
 *4 Minimum distance of 0.2 m is determined by the light curtain. Maximum distance of 3 m is to avoid interferences between muting sensors

COMPATIBILITY

SG BODY COMPACT MUTING SG BODY BIG MUTING SG BODY REFLECTOR MUTING SG2 MUTING SG4 EXTENDED

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DIMENSIONS



SG-M-CB CONNECTION BOX

The SG-M connection box has 4 M12 connectors on board, one for each muting sensor to be connected to an SG Series light curtain. Unused connectors need to be covered by a cap, in order to maintain IP65 protection.

A green LED indicator signals when the muting sensor is generating the corresponding muting signal towards the safety light curtain.

Inside the connection box, signals are put in parallel: A1 with A2 and B1 with B2, and forwarded to the pigtail connector, that has to be inserted into the muting connector of the light curtain.

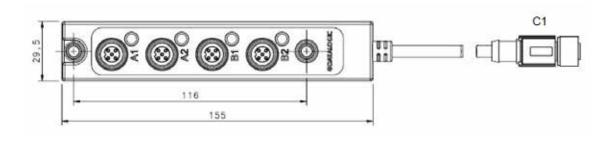


MODEL	DESCRIPTION	ORDER NUMBER
SG-M-CB	Connection Box for SG-M kits	95ASE2500
SG-M-CB-KIT	SG-M-CB Mounting Kit	95ASE2830
NOTES		

SG-M-CB-KIT contains screws, whasers and fixing guides needed to connect SG-M-CB to the profile of SG family Safety light curtains.

COMPATIBILITY

SG BODY COMPACT MUTING
SG BODY BIG MUTING
SG BODY REFLECTOR MUTING
SG2 MUTING
SG4 EXTENDED
SG-PSB (mechanical compatibility)



PIN #	S8	S100	
1	+24 Vdc		
2	Alarm output	Light/Dark selection	
3	0 Vdc		
4	PnP Output		

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S100 AND S8 SENSORS

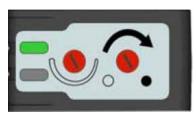
CHARACTERISTICS	REGULATIONS	MAX. OPERATING DISTANCE	CONNECTION	ORDER NUMBER
	Dark/Light	6 m	M8	950811310
Polarized retroreflective, red LED, PnP Output, Plastic			400 mm pigtail M12	950815060
			700 mm pigtail M12	950815070
			2000 mm pigtail M12	950815080
	Dark/Light Mono-turn sensitivity adjustment trimmer	7 m	M8	950801160
			400 mm pigtail M12	950805340
			700 mm pigtail M12	950805350
	,		2000 mm pigtail M12	950805360
	Polarized retroreflective, red LED, PnP Output,	Polarized retroreflective, red LED, PnP Output, Plastic Dark/Light	Polarized retroreflective, red LED, PnP Output, Plastic Dark/Light Dark/Light Dark/Light Mono-turn sensitivity Dark/Light	Polarized retroreflective, red LED, PnP Output, Plastic Dark/Light Dark/Light Dark/Light Dark/Light Dark/Light Dark/Light M8 400 mm pigtail M12 2000 mm pigtail M12 M8 400 mm pigtail M12 M8 400 mm pigtail M12 7 m 400 mm pigtail M12 700 mm pigtail M12

NOTES

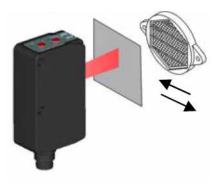
For more detailed technical information about the sensors, refer to Datasheed of S100 or S8 families.

S8 SETTINGS

DARK



Rotate trimmer in a clockwise direction to set the DARK mode (output ON in presence of the object).



Position the sensor in front of its reflector



If needed, regulate the intensity of the beam by rotating the adjustment trimmer

SPARE PARTS

MODEL	NOTES	ORDER NUMBER
SG-M-ARM	Cylindrical Metallic Arm	95ASE2460
CS-M1-02-B-004	4 poles M8 female M12 male cable 400mm	95ASE2470
CS-M1-02-B-007	4 poles M8 female M12 male 700mm	95ASE2480
CS-M1-02-B-02	4 poles M8 female M12 male 2000mm	95ASE2490
SG-M BRACKET	Single plastic orientable bracket, to mount S8, S100, or R6	95ASE2630
R6	Prismatic reflector 36 x 55 mm - plastic support 40.5 x 60 mm	95A151350

The company endeavours to continuously improve and renew its products; for this reason the technical data and contents of this catalogue may undergo variations without prior notice. For correct installation and use, the company can guarantee only the data indicated in the instruction manual supplied with the products.

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^{1*} With reflector R6