DATALOGIC

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.

- Ready-to-use muting kits with pre-installed sensors
- T or X configuration (bi-directional) and L configuration (mono-directional)
- Retroreflective, dark-on photocells, with the ability to regulate the intensity of the beam
- Maximum reachable distance: 3 m
- Sensors and reflectors can be positioned along the arms and orientated both horizontally and vertically
- Fast connection of up to 4 sensors to one safety light curtain through a connection box with M12 connectors
- 700 mm or 2000 mm cables for installation of the kit on the light curtains or on protective stands

APPLICATIONS

SG-M

- Palletizers / Depalletizers

- Conveyor lines

INDUSTRIES

Material Handling, Food & Beverage, Metal working, Automotive, Wood, Ceramics

_	SG-ML	- S		200-	0	
				700 mm	· .	
L	L configuration: 2 sensors, 2 reflectors. Par- allel beams. Monodirectional (Exit only).		200	2000 mm		
Т	T configuration: 4 sensors, 4 reflectors. Parallel beams. Bidirectional.					ARM ORIENTATION
х	X configuration: 2 sensors, 2 reflectors. Crossed beams. Bidirectional.	MUTING SENSOR		L	Left: the muting arm is to the left, looking at light curtain receiver	
		S8	2 x S8-PR-5-B01-PP		_	Right: muting arm is to the right look-
		S100	0 2 x S100-PR-5-B10-PK		R	Right: muting arm is to the right, look- ing at light curtain receiver

(F

A FLEXIBLE SOLUTION FOR MUTING

SG-M

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).

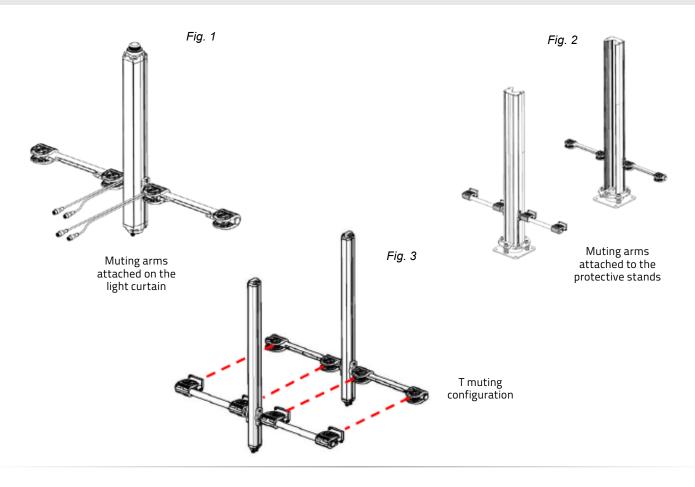
Sensors provided with the kit are retroreflective, dark on photocells, and come in two versions:

- 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 R6 reflector is mounted.

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

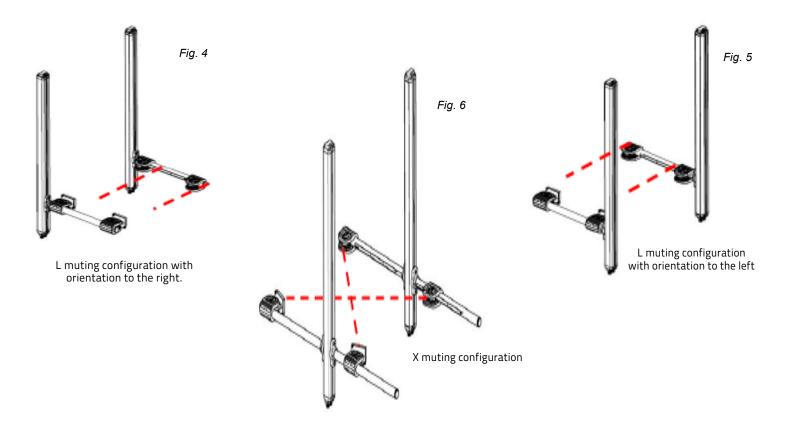
Sensors have detachable cables (in T and L muting kits) or pigtails. Both cables have an M12 connector M12 connector, for a quick connection to the safety light curtains through a dedicated connection box (SG-M-CB), or to an external safety controller through normal cables.

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

DATALOGIC



SG-M MUTING KITS

MUTING CONFIGURATION	MODEL	DIRECTION ¹	SENSOR ADJUSTMENT TRIMMER	MIN/MAX DISTANCE *4	SENSORS ^{*2}	CABLES '3	ORDER NUMBER
	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
L Muting	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
L Muting	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
TMuting	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
VAuting	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

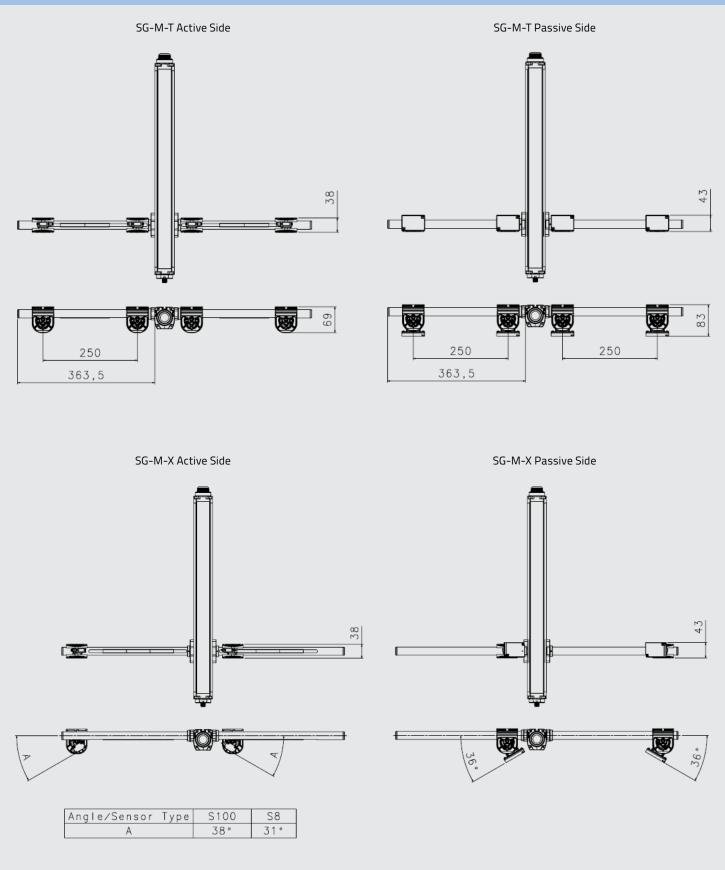
*1 "Left side" and "Right side", related to L muting kits, refers to the position of the arm looking towards the receiver of the light curtain. "Left side" and "Right side" kits differ only mechanically, in order to keep the regulating screws upside.
*2 In X Muting Kits, special versions of photocells 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

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

SG-M

DATALOGIC

DIMENSIONS



SG-M

DATALOGIC

SG-M CONNECTION BOX

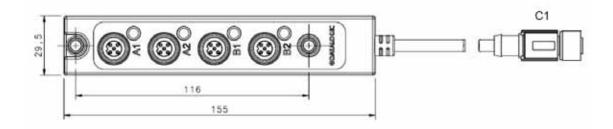
The SG-M connection box has 4 M12 connectors on board, one for each muting sensor to be connected to an SG Series light curtain. Unused connectors need to be covered by a cap, in order to maintain IP65 protection.

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



PIN #	58	S100	
1	+24	Vdc	
2	Alarm output	Light/Dark selection	
3	0 \	/dc	
4	PnP Output		



DATALOGIC

S100 AND S8 SENSORS

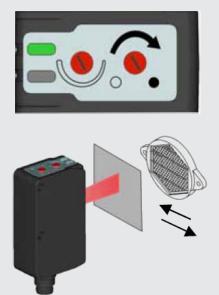
MODEL	CHARACTERISTICS	REGULATIONS	MAX. OPERATING DISTANCE	CONNECTION	ORDER NUMBER
S100-PR-5-B10-PK	Polarized retroreflective, red LED, PnP Output, Plastic	Dark/Light	6 m	M8	950811310
S100-PR-2-B10-PK SV4972				400 mm pigtail M12	950815060
S100-PR-2-B10-PK SV4973				700 mm pigtail M12	950815070
S100-PR-2-B10-PK SV4974				2000 mm pigtail M12	950815080
S8-PR-5-B01-PP		Dark/Light Mono-turn sensitivity adjustment trimmer	7 m	M8	950801160
S8-PR-5-B01-PP SV4972				400 mm pigtail M12	950805340
S8-PR-5-B01-PP SV4973				700 mm pigtail M12	950805350
S8-PR-5-B01-PP SV4974				2000 mm pigtail M12	950805360
NOTES					

1* With reflector R6

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

DARK

S8 SETTINGS



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

Rev. 00, 06/2015