## Description

- 1-10 metre sensing range
- 34 to 194 cross scanning beams
- Active height of 650 mm to 1800 mm
- Detector length of 850 mm to 2000 mm
- Cable or plug connection
- Automatic sensitivity adjustment
- Water-resistant, slim line (12x30 mm) detector housing
- Power, output and signal status indicators
- 12 36 V dc supply voltage
- Master/Slave synchronisation and multiplexing
- 5 wire, solid state relay output
- Electrically synchronised



The SG 10 M/S light curtain system consists of a self-contained transmitter detector, SGT and receiver detector, SGR, which are to be positioned opposite of each other. The detectors are housed in a water-resistant, aluminium profile available in a slim line design (12 x 30 mm).

The SGR is supplied with a 12-36~V dc power supply with a 5~v wire, solid-state relay output, in light operated function. The system offers a Master set and Slave set which can be wire connected together to form a system of two light curtain sets which are synchronised and multiplexed, ensuring that optical cross-talk between the two sets is prevented. The Master set can also operate as a stand alone system. Transmitter and receiver detectors are electrically synchronised.

The advanced automatic signal-tracking (AST) feature ensures that no onsite set up or adjustments are required. The signal level of each individual channel is adjusted automatically, which compensates for misalignment and contamination during operation.

Specialised signal processing technology, designed for outdoor environments, reduces the risk of false detections of water, rain or snow that may pass between the detectors during operation.

Both the transmitter and receiver detectors are protected against reverse polarity of power supplies, control input and output signals. The output is also protected against short circuit and inductive loads.

Technical Data							
		46 mm channel spacing		92 mm channel spacing			
		SGT	SGR	SGT	SGR		
Supply voltage			12 – 3	6 V dc			
Current consumption		Max. 100 mA	50 mA	Max. 100 mA	50 mA		
Output rating	Solid state	-	200 mA	-	200 mA		
Short circuit protected		-	Yes	-	Yes		
Reverse polarity protected			Ye	us '			
Light source		Infrared (880 nm)	-	Infrared (880 nm)	-		
Number of channels (diodes	per detector)	16, 24, 32	or 40	8, 12, 16 or 20			
Number of cross scanning be	eams	74, 114, 154	or 194	34, 54, 74 or 94			
Active height		695, 1065, 1430	or 1800 mm	650, 1020, 1385 or 1755 mm			
Channel spacing		Between channel 1 and bot Between other cha	0	Between channel 1 and bottom of housing: 25 m Between other channels: 92 mm			
Distance between beams at pinch point		23 mr	n	46 mm			
Response time		-	< 170 ms	-	< 90 ms		
Power on indicator		Green LED					
Output indicator		-	Yellow LED	-	Yellow LED		
System status indicator		-	Red LED	-	Red LED		
Time-out function		· ·	_				
Housing dimensions (w x d)	Slim Line C		12 x 3	0 mm			
Housing material	Profile	Aluminium (black anodised)					
nousing material	Lens cover	Polycarbonate					
Connection		5 m fixed cable or 0,5 m cable with 5 pin, M12 plug					
Cable, PVC Ø 4,9 mm		3 x 0,20 mm <sup>2</sup>	5 x 0,20 mm <sup>2</sup>	3 x 0,20 mm <sup>2</sup>	5 x 0,20 mm <sup>2</sup>		



## SPACEGUARD™ SERIES

<b>Environmental Data</b>		
Light immunity @ 5° incidence		> 100 000 lux
Temperature, operation		−20 to +65 °C
Temperature, storage		−40 to +80 °C
Sealing class	C housing	IP 67
Approvals		Œ

Av	ailable Typ	oes								
Slir	m Line C									
MA	STER									
	Housing	Active	Number of	Number of	Beam	Connec	tion	5 m cable	0.5 m cable with 5 pin, M12 plug	Pana
	Length Height		Height Channels Beams Spacing		Output		Order reference		Range	
to	850 mm	650 mm	8	34	92 mm			SGT 10-085-008-B1-C-M-5	SGT 10-085-008-B1-C-M-0.5-J5	
Detector	050 111111		SGT 10-085-016-A1-C-M-0.5-J5							
ב ב	1250 mm	1020 mm	12	54	92 mm	_	1	SGT 10-125-012-B1-C-M-5	SGT 10-125-012-B1-C-M-0.5-J5	- 10 m
Iransmitter	1230 11111	1065 mm	24	114	46 mm			SGT 10-125-024-A1-C-M-5	SGT 10-125-024-A1-C-M-0.5-J5	
nsu	1600 mm	1385 mm	16	74	92 mm			SGT 10-160-016-B1-C-M-5	SGT 10-160-016-B1-C-M-0.5-J5	
<u>a</u>		1430 mm	32	154	46 mm			SGT 10-160-032-A1-C-M-5	SGT 10-160-032-A1-C-M-0.5-J5	
		1755 mm	20	94	92 mm			SGT 10-200-020-B1-C-M-5	SGT 10-200-020-B1-C-M-0.5-J5	
	2000 111111	1800 mm	nm 40 194 46 mm		SGT 10-200-040-A1-C-M-5	SGT 10-200-040-A1-C-M-0.5-J5				
	850 mm	650 mm	8	34	92 mm			SGR 10-085-008-B1-C-M-07-5	SGR 10-085-008-B1-C-M-07-0.5-J5	
_	850 mm	695 mm	16	74	46 mm			SGR 10-085-016-A1-C-M-07-5	SGR 10-085-016-A1-C-M-07-0.5-J5	- 1-10 m
200	1250 mm	1020 mm	12	54	92 mm			SGR 10-125-012-B1-C-M-07-5	SGR 10-125-012-B1-C-M-07-0.5-J5	
Detector		1065 mm	24	114	46 mm	Solid State Relay		SGR 10-125-024-A1-C-M-07-5	SGR 10-125-024-A1-C-M-07-0.5-J5	
		1385 mm	16	74	92 mm			SGR 10-160-016-B1-C-M-07-5	SGR 10-160-016-B1-C-M-07-0.5-J5	
несегуег	1600 mm	1430 mm	32	154	46 mm			SGR 10-160-032-A1-C-M-07-5	SGR 10-160-032-A1-C-M-07-0.5-J5	
ř	2000 mm	1755 mm	20	94	92 mm			SGR 10-200-020-B1-C-M-07-5	SGR 10-200-020-B1-C-M-07-0.5-J5	
	2000 11111	1800 mm	40	194	46 mm			SGR 10-200-040-A1-C-M-07-5	SGR 10-200-040-A1-C-M-07-0.5-J5	

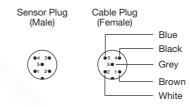
SL	AVE									
	Housing	Active	Number of	Number of	Beam	Connec	tion	5 m cable	0.5 m cable with 5 pin, M12 plug	Range
	Length	Height	Channels	Beams	Spacing	Outpu	ut	Orde	r reference	nange
гo	850 mm	650 mm	8	34	92 mm			SGT 10-085-008-B1-C-S-5	SGT 10-085-008-B1-C-S-0.5-J5	
Detector	650 111111	695 mm	16	74	46 mm			SGT 10-085-016-A1-C-S-5	SGT 10-085-016-A1-C-S-0.5-J5	
	1250 mm	1020 mm	12	54	92 mm			SGT 10-125-012-B1-C-S-5	SGT 10-125-012-B1-C-S-0.5-J5	
itte	1600 mm —	1065 mm	24	114	46 mm	_		SGT 10-125-024-A1-C-S-5	SGT 10-125-024-A1-C-S-0.5-J5	10 m
Transmitter		1385 mm	16	74	92 mm		_	SGT 10-160-016-B1-C-S-5	SGT 10-160-016-B1-C-S-0.5-J5	10111
Tra		1430 mm	32	154	46 mm			SGT 10-160-032-A1-C-S-5	SGT 10-160-032-A1-C-S-0.5-J5	
		1755 mm	20	94	92 mm			SGT 10-200-020-B1-C-S-5	SGT 10-200-020-B1-C-S-0.5-J5	
	2000 111111	1800 mm	40	194	46 mm			SGT 10-200-040-A1-C-S-5	SGT 10-200-040-A1-C-S-0.5-J5	
	850 mm	650 mm	8	34	92 mm			SGR 10-085-008-B1-C-S-07-5	SGR 10-085-008-B1-C-S-07-0.5-J5	
Ē	850 mm	695 mm	16	74	46 mm			SGR 10-085-016-A1-C-S-07-5	SGR 10-085-016-A1-C-S-07-0.5-J5	
Detector	1250 mm	1020 mm	12	54	92 mm			SGR 10-125-012-B1-C-S-07-5	SGR 10-125-012-B1-C-S-07-0.5-J5	
Det		1065 mm	24	114	46 mm	Relay (No	Light	SGR 10-125-024-A1-C-S-07-5	SGR 10-125-024-A1-C-S-07-0.5-J5	1-10 m
		1385 mm	16	74	92 mm		(NC)	SGR 10-160-016-B1-C-S-07-5	SGR 10-160-016-B1-C-S-07-0.5-J5	
Receiver	1600 mm	1430 mm	32	154	46 mm			SGR 10-160-032-A1-C-S-07-5	SGR 10-160-032-A1-C-S-07-0.5-J5	
ď	2000 m==	1755 mm	20	94	92 mm			SGR 10-200-020-B1-C-S-07-5	SGR 10-200-020-B1-C-S-07-0.5-J5	
	2000 mm	1800 mm	40	194	46 mm			SGR 10-200-040-A1-C-S-07-5	SGR 10-200-040-A1-C-S-07-0.5-J5	1

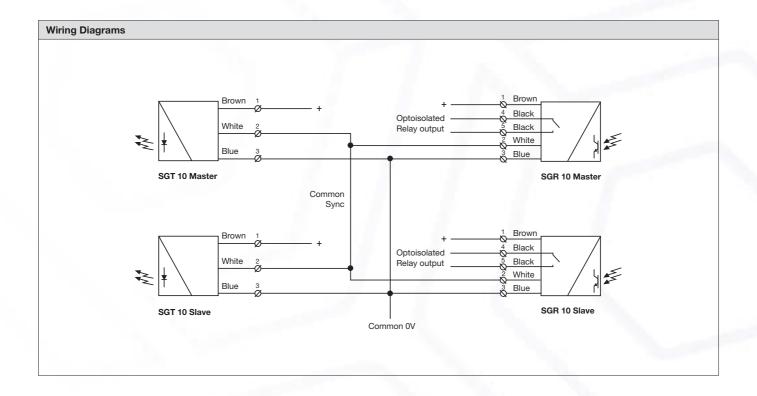
Note: The transmitter SGT and receiver SGR set must have the same number of channels and beam spacing.



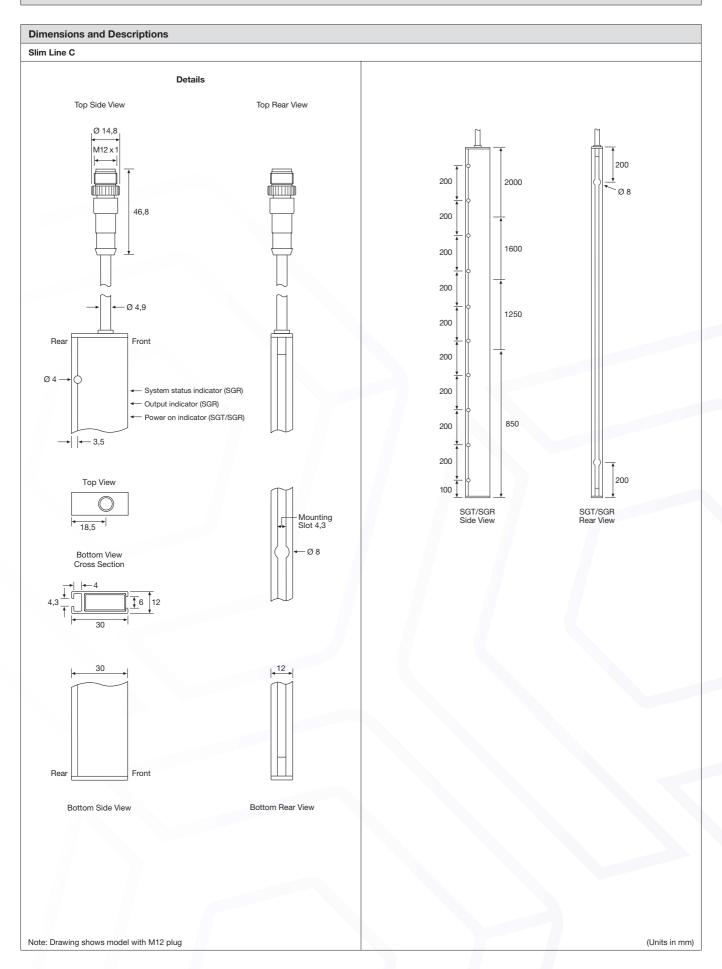
	Cable	M12 Plug / Cable
Supply +	Brown	Pin 1 / Brown
Common 0V	Blue	Pin 3 / Blue
SGR output	Black	Pin 4 / Black
SGR output	Black	Pin 5 / Grey
Common synchronisation	White	Pin 2 / White

## 5 pin, M12

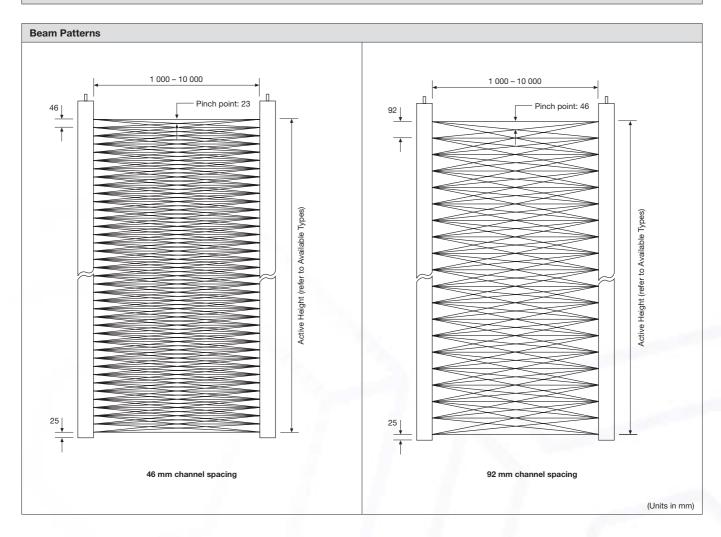


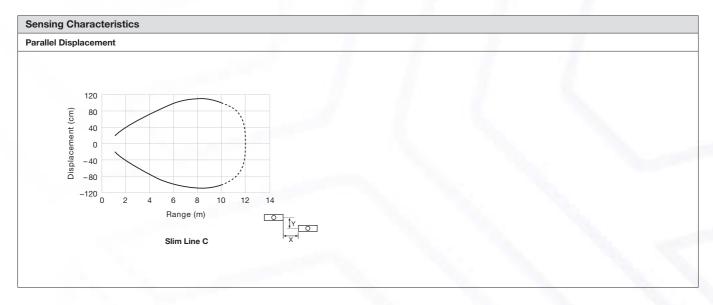




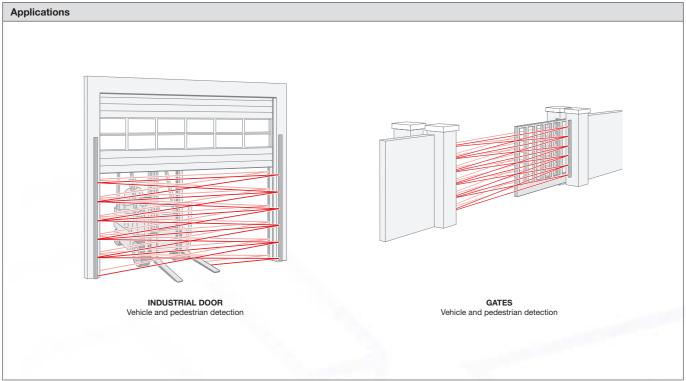


SPACEGUARD™ SERIES SG 10 M/S









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