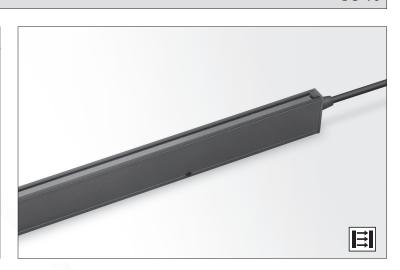


SPACEGUARD™ SERIES

SG 10

Description

- 1-10 m sensing range
- 34 to 274 cross scanning beams
- Active height of 650 mm to 2535 mm
- Detector length of 850 mm to 2800 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
- 5 wire, solid state relay output
- Test input
- Light/dark function via wire connection



The SG 10 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 ($12 \times 30 \text{ mm}$).

The SGR is supplied with a 12-36 V dc power supply with a 5 wire, solid state relay output, with wire selectable light or dark function. The test input in the SGT may be used for either disabling or enabling the transmitting power temporarily for test purposes.

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. Transmitter and receiver detectors are optically synchronised.

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 chanr	nel spacing	92 mm channel spacing			
	SGT	SGR	SGT	SGR		
Supply voltage	12-36 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	Yes					
Light source	Infrared (880 nm)	-	Infrared (880 nm)	-		
Number of channels (diodes per detector)	16, 24, 32, 4	0, 48 or 56	8, 12, 16, 20, 24 or 28			
Number of cross scanning beams	74, 114, 154, 19	94, 234 or 274	34, 54, 74, 94, 114 or 134			
Active height	695, 1065, 1430, 1800), 2165 or 2535 mm	650, 1020, 1385, 1755, 2120 or 2490 mm			
Channel spacing	46 m	nm	92 mm			
Bottom spacing to Ch 1	25 mm					
Pinch point beam spacing	23 mm		46 mm			
Response time	-	< 165 ms	-	< 85 ms		
Power on indicator		Green	1 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 30 mm					
Profile Housing material	Aluminium (black anodised) Polycarbonate					
Lens cover						
Connection		5 m fixed cable or 0,5 m c	eable with 5 pin, M12 plug			
Cable, PVC Ø 4,9 mm	3 x 0,20 mm ²	5 x 0,20 mm ²	3 x 0,20 mm ²	5 x 0,20 mm ²		





SG 10 SPACEGUARD™ SERIES

Environmental Data					
		SGT	SGR		
Light immunity @ 5° incidence		-	> 100 000 lux		
Temperature, operation		−20 to +65 °C			
Temperature, storage		-40 to +80 °C			
Sealing class	Chousing	IP 67			
Approvals		Œ			

Slim L	Line C									
Н	Housing	Active	Number of	Number of	Beam	Conne	ection	5 m cable	0.5 m cable with 5 pin, M12 plug	_
ι	Length	Height	Channels	Beams	Spacing	Output		Order Reference		Range
	850 mm	650 mm	8	34	92 mm			SGT 10-085-008-B1-C-01-5	SGT 10-085-008-B1-C-01-0.5-J5	10 m
l °		695 mm	16	74	46 mm			SGT 10-085-016-A1-C-01-5	SGT 10-085-016-A1-C-01-0.5-J5	
ي <u>ا</u> و	1250 mm -	1020 mm	12	54	92 mm		-	SGT 10-125-012-B1-C-01-5	SGT 10-125-012-B1-C-01-0.5-J5	
jec 12		1065 mm	24	114	46 mm			SGT 10-125-024-A1-C-01-5	SGT 10-125-024-A1-C-01-0.5-J5	
ي _{1′}	1600 mm	1385 mm	16	74	92 mm			SGT 10-160-016-B1-C-01-5	SGT 10-160-016-B1-C-01-0.5-J5	
Transmitter Detector		1430 mm	32	154	46 mm			SGT 10-160-032-A1-C-01-5	SGT 10-160-032-A1-C-01-0.5-J5	
nsu	000 mm	1755 mm	20	94	92 mm			SGT 10-200-020-B1-C-01-5	SGT 10-200-020-B1-C-01-0.5-J5	
<u>-</u> ⊒	000 mm	1800 mm	40	194	46 mm			SGT 10-200-040-A1-C-01-5	SGT 10-200-040-A1-C-01-0.5-J5	
2	2400 mm	2120 mm	24	114	92 mm			SGT 10-240-024-B1-C-01-5	SGT 10-240-024-B1-C-01-0.5-J5	
2		2165 mm	48	234	46 mm			SGT 10-240-048-A1-C-01-5	SGT 10-240-048-A1-C-01-0.5-J5	
20	2800 mm	2490 mm	28	134	92 mm			SGT 10-280-028-B1-C-01-5	SGT 10-280-028-B1-C-01-0.5-J5	
20	000 111111	2535 mm	56	274	46 mm			SGT 10-280-056-A1-C-01-5	SGT 10-280-056-A1-C-01-0.5-J5	
		650 mm	8	34	92 mm	Solid State Relay	DO/LO (NO/NC)	SGR 10-085-008-B1-C-07-5	SGR 10-085-008-B1-C-07-0.5-J5	1-10 m
8	350 mm	695 mm	16	74	46 mm			SGR 10-085-016-A1-C-07-5	SGR 10-085-016-A1-C-07-0.5-J5	
		1020 mm	12	54	92 mm			SGR 10-125-012-B1-C-07-5	SGR 10-125-012-B1-C-07-0.5-J5	
'-	250 mm	1065 mm	24	114	46 mm			SGR 10-125-024-A1-C-07-5	SGR 10-125-024-A1-C-07-0.5-J5	
Receiver Detector		1385 mm	16	74	92 mm			SGR 10-160-016-B1-C-07-5	SGR 10-160-016-B1-C-07-0.5-J5	
) lete	600 mm	1430 mm	32	154	46 mm			SGR 10-160-032-A1-C-07-5	SGR 10-160-032-A1-C-07-0.5-J5	
e l		1755 mm	20	94	92 mm			SGR 10-200-020-B1-C-07-5	SGR 10-200-020-B1-C-07-0.5-J5	
· S 20	000 mm	1800 mm	40	194	46 mm			SGR 10-200-040-A1-C-07-5	SGR 10-200-040-A1-C-07-0.5-J5	
_		2120 mm	24	114	92 mm			SGR 10-240-024-B1-C-07-5	SGR 10-240-024-B1-C-07-0.5-J5	
24	2400 mm	2165 mm	48	234	46 mm			SGR 10-240-048-A1-C-07-5	SGR 10-240-048-A1-C-07-0.5-J5	
		2490 mm	28	134	92 mm			SGR 10-280-028-B1-C-07-5	SGR 10-280-028-B1-C-07-0.5-J5	
28	800 mm	2535 mm	56	274	46 mm			SGR 10-280-056-A1-C-07-5	SGR 10-280-056-A1-C-07-0.5-J5	

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





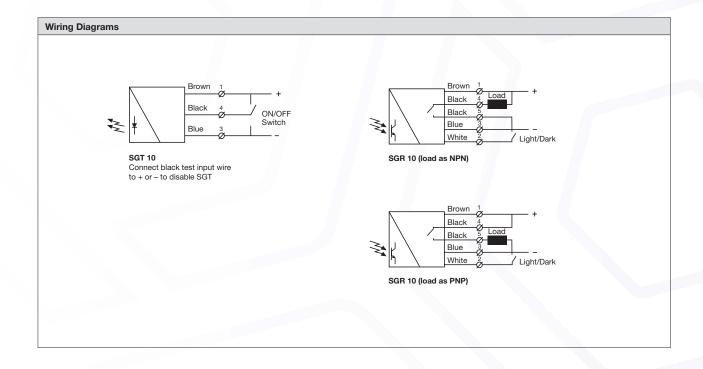


SPACEGUARD™ SERIES

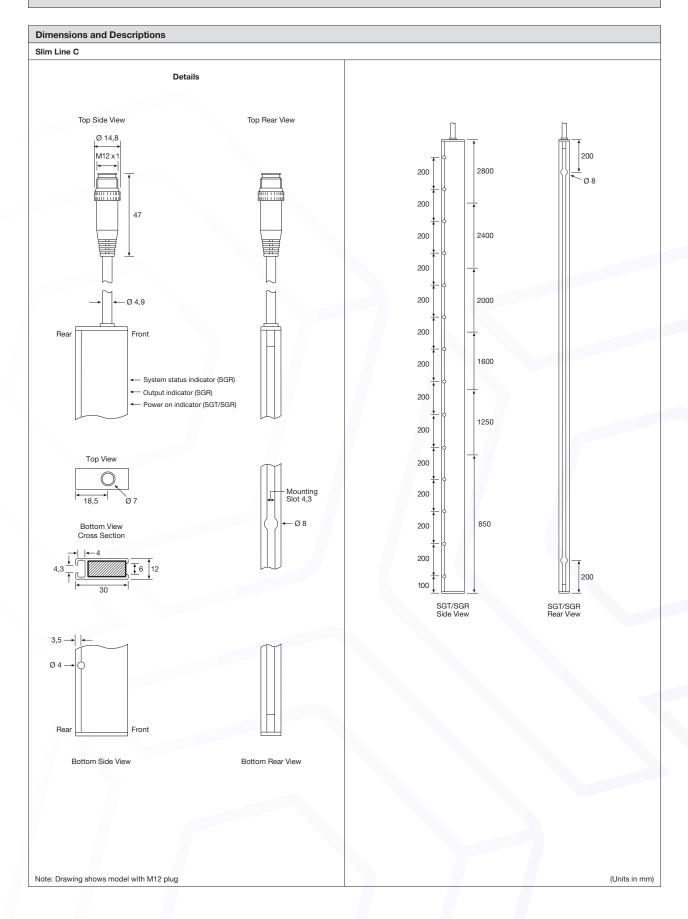
Refer to page 161 for extension cables

SG 10

Connections			
	Cable	M12 Plug / Cable	
Supply +	Brown	Pin 1 / Brown	
Supply –	Blue	Pin 3 / Blue	
SGT test input	Black	Pin 4 / Black	
SGR output	Black	Pin 4 / Black	
SGR output	Black	Pin 5 / Grey	
SGR DO/LO control	White	Pin 2 / White	
	5 pin, M12 Sensor Plug Cable Plug (Male) (Female)		
	Blue		

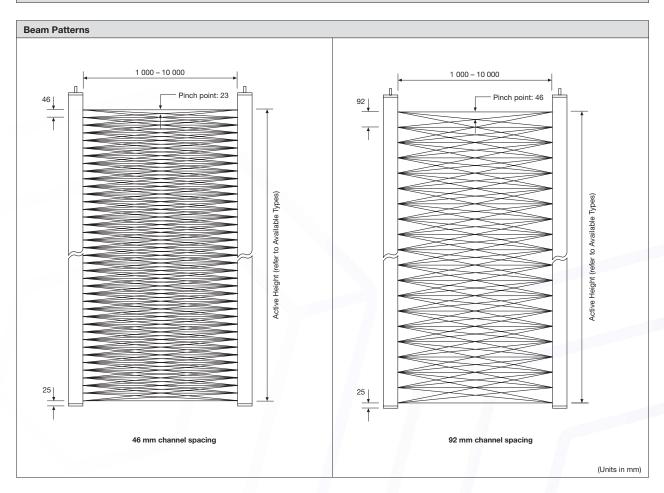


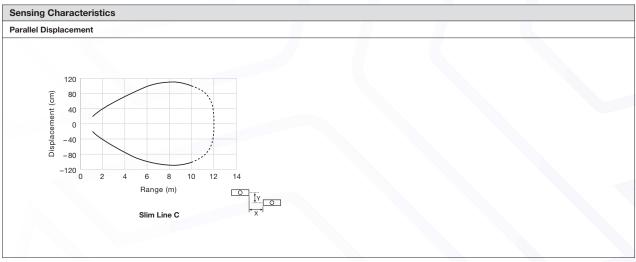






SPACEGUARD™ SERIES SG 10





Telco reserves the right to change specifications without notice.



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