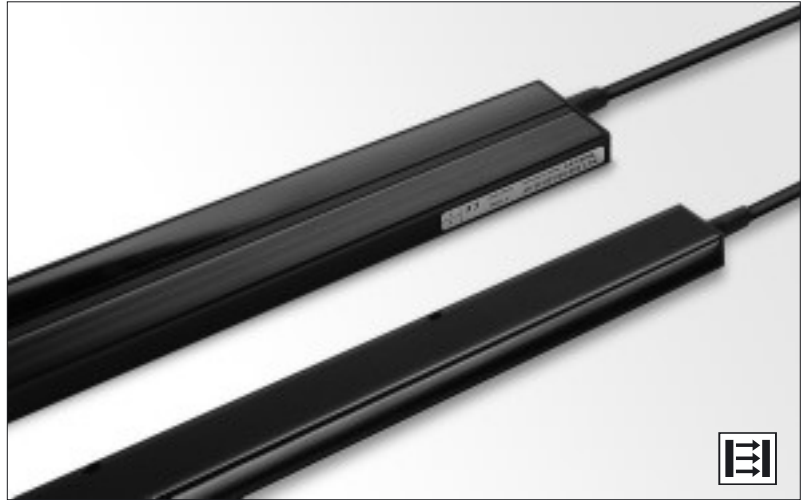


**Description**

- 5 m sensing range
- 16 to 64 parallel beams
- 28 or 56 mm beam spacing
- Active height of 425 mm to 1770 mm
- Detector length of 570 mm to 2105 mm
- Flexible or non-flexible cable with plug connection
- Slim line (10 x 28 mm) or leading edge (37,5 x 13 mm) detector housing



The SpaceGuard SG 11 light curtain series, which consists of a transmitter detector, SGT and receiver detector, SGR, is made to operate in conjunction with a controller SGC 11. The detectors are housed in an aluminium profile available in a slim line design (10 x 28 mm) and a leading edge design (37,5 x 13 mm). The system can be used both in static and dynamic installations.

**Technical Data**

	28 mm channel spacing		56 mm channel spacing	
	SGT	SGR	SGT	SGR
Light source	Infrared (940 nm)	-	Infrared (940 nm)	-
Number of channels (diodes per detector)	16, 24, 32, 48, 56 or 64		16, 24 or 32	
Number of parallel beams	16, 24, 32, 48, 56 or 64		16, 24 or 32	
Active height	425, 650, 875, 1100, 1320, 1545 or 1770 mm		845, 1295 or 1740 mm	
Channel spacing	Between channel 1 and bottom of housing: 22 mm Between other channels: 28 mm		Between channel 1 and bottom of housing: 22 mm Between other channels: 56 mm	
Housing dimensions	Slim Line			
	Leading Edge			
Housing material	Aluminium			
Housing colour	Black anodized			
Front cover	Infrared transparent plastic			

**Environmental Data**

Light immunity @ 20° incidence	> 10 000 lux
Temperature, operation	-20 to +55 °C
Temperature, storage	-40 to +80 °C
Sealing class	IP 55
Approvals	CE

Available Types

Slim Line Housing

Transmitter Detector	Housing Length	Active Height	Connection		4 m flexible cable	4 m non-flexible cable	0.5 m flexible cable	0.5 m non-flexible cable
			No of Beams	Beam Space	Order Reference			
							SGT 057-016-A1-A-4F	SGT 057-016-A1-A-4
Transmitter Detector	570 mm	425 mm	16	28 mm	SGT 057-016-A1-A-4F	SGT 057-016-A1-A-4	SGT 057-016-A1-A-0.5F	SGT 057-016-A1-A-0.5
	795 mm	650 mm	24		SGT 080-024-A1-A-4F	SGT 080-024-A1-A-4	SGT 080-024-A1-A-0.5F	SGT 080-024-A1-A-0.5
	1020 mm	845 mm	16	56 mm	SGT 102-016-B1-A-4F	SGT 102-016-B1-A-4	SGT 102-016-B1-A-0.5F	SGT 102-016-B1-A-0.5
		875 mm	32	28 mm	SGT 102-032-A1-A-4F	SGT 102-032-A1-A-4	SGT 102-032-A1-A-0.5F	SGT 102-032-A1-A-0.5
	1245 mm	1100 mm	40		SGT 125-040-A1-A-4F	SGT 125-040-A1-A-4	SGT 125-040-A1-A-0.5F	SGT 125-040-A1-A-0.5
	1470 mm	1295 mm	24	56 mm	SGT 147-024-B1-A-4F	SGT 147-024-B1-A-4	SGT 147-024-B1-A-0.5F	SGT 147-024-B1-A-0.5
		1320 mm	48	28 mm	SGT 147-048-A1-A-4F	SGT 147-048-A1-A-4	SGT 147-048-A1-A-0.5F	SGT 147-048-A1-A-0.5
	1695 mm	1545 mm	56		SGT 170-056-A1-A-4F	SGT 170-056-A1-A-4	SGT 170-056-A1-A-0.5F	SGT 170-056-A1-A-0.5
	1995 mm	1740 mm	32	56 mm	SGT 200-032-B1-A-4F	SGT 200-032-B1-A-4	SGT 200-032-B1-A-0.5F	SGT 200-032-B1-A-0.5
		1770 mm	64	28 mm	SGT 200-064-A1-A-4F	SGT 200-064-A1-A-4	SGT 200-064-A1-A-0.5F	SGT 200-064-A1-A-0.5
	2105 mm	1740 mm	32	56 mm	SGT 210-032-B1-A-4F	SGT 210-032-B1-A-4	SGT 210-032-B1-A-0.5F	SGT 210-032-B1-A-0.5
		1770 mm	64	28 mm	SGT 210-064-A1-A-4F	SGT 210-064-A1-A-4	SGT 210-064-A1-A-0.5F	SGT 210-064-A1-A-0.5

Receiver Detector	570 mm	425 mm	16	28 mm	SGR 057-016-A1-A-4F	SGR 057-016-A1-A-4	SGR 057-016-A1-A-0.5F	SGR 057-016-A1-A-0.5
	795 mm	650 mm	24		SGR 080-024-A1-A-4F	SGR 080-024-A1-A-4	SGR 080-024-A1-A-0.5F	SGR 080-024-A1-A-0.5
	1020 mm	845 mm	16	56 mm	SGR 102-016-B1-A-4F	SGR 102-016-B1-A-4	SGR 102-016-B1-A-0.5F	SGR 102-016-B1-A-0.5
		875 mm	32	28 mm	SGR 102-032-A1-A-4F	SGR 102-032-A1-A-4	SGR 102-032-A1-A-0.5F	SGR 102-032-A1-A-0.5
	1245 mm	1100 mm	40		SGR 125-040-A1-A-4F	SGR 125-040-A1-A-4	SGR 125-040-A1-A-0.5F	SGR 125-040-A1-A-0.5
	1470 mm	1295 mm	24	56 mm	SGR 147-024-B1-A-4F	SGR 147-024-B1-A-4	SGR 147-024-B1-A-0.5F	SGR 147-024-B1-A-0.5
		1320 mm	48	28 mm	SGR 147-048-A1-A-4F	SGR 147-048-A1-A-4	SGR 147-048-A1-A-0.5F	SGR 147-048-A1-A-0.5
	1695 mm	1545 mm	56		SGR 170-056-A1-A-4F	SGR 170-056-A1-A-4	SGR 170-056-A1-A-0.5F	SGR 170-056-A1-A-0.5
	1995 mm	1740 mm	32	56 mm	SGR 200-032-B1-A-4F	SGR 200-032-B1-A-4	SGR 200-032-B1-A-0.5F	SGR 200-032-B1-A-0.5
		1770 mm	64	28 mm	SGR 200-064-A1-A-4F	SGR 200-064-A1-A-4	SGR 200-064-A1-A-0.5F	SGR 200-064-A1-A-0.5
	2105 mm	1740 mm	32	56 mm	SGR 210-032-B1-A-4F	SGR 210-032-B1-A-4	SGR 210-032-B1-A-0.5F	SGR 210-032-B1-A-0.5
		1770 mm	64	28 mm	SGR 210-064-A1-A-4F	SGR 210-064-A1-A-4	SGR 210-064-A1-A-0.5F	SGR 210-064-A1-A-0.5

Leading Edge Housing

Transmitter Detector	570 mm	425 mm	16	28 mm	SGT 057-016-A1-B-4F	SGT 057-016-A1-B-4	SGT 057-016-A1-B-0.5F	SGT 057-016-A1-B-0.5
	795 mm	650 mm	24		SGT 080-024-A1-B-4F	SGT 080-024-A1-B-4	SGT 080-024-A1-B-0.5F	SGT 080-024-A1-B-0.5
	1020 mm	845 mm	16	56 mm	SGT 102-016-B1-B-4F	SGT 102-016-B1-B-4	SGT 102-016-B1-B-0.5F	SGT 102-016-B1-B-0.5
		875 mm	32	28 mm	SGT 102-032-A1-B-4F	SGT 102-032-A1-B-4	SGT 102-032-A1-B-0.5F	SGT 102-032-A1-B-0.5
	1245 mm	1100 mm	40		SGT 125-040-A1-B-4F	SGT 125-040-A1-B-4	SGT 125-040-A1-B-0.5F	SGT 125-040-A1-B-0.5
	1470 mm	1295 mm	24	56 mm	SGT 147-024-B1-B-4F	SGT 147-024-B1-B-4	SGT 147-024-B1-B-0.5F	SGT 147-024-B1-B-0.5
		1320 mm	48	28 mm	SGT 147-048-A1-B-4F	SGT 147-048-A1-B-4	SGT 147-048-A1-B-0.5F	SGT 147-048-A1-B-0.5
	1695 mm	1545 mm	56		SGT 170-056-A1-B-4F	SGT 170-056-A1-B-4	SGT 170-056-A1-B-0.5F	SGT 170-056-A1-B-0.5
	1995 mm	1740 mm	32	56 mm	SGT 200-032-B1-B-4F	SGT 200-032-B1-B-4	SGT 200-032-B1-B-0.5F	SGT 200-032-B1-B-0.5
		1770 mm	64	28 mm	SGT 200-064-A1-B-4F	SGT 200-064-A1-B-4	SGT 200-064-A1-B-0.5F	SGT 200-064-A1-B-0.5
	2105 mm	1740 mm	32	56 mm	SGT 210-032-B1-B-4F	SGT 210-032-B1-B-4	SGT 210-032-B1-B-0.5F	SGT 210-032-B1-B-0.5
		1770 mm	64	28 mm	SGT 210-064-A1-B-4F	SGT 210-064-A1-B-4	SGT 210-064-A1-B-0.5F	SGT 210-064-A1-B-0.5

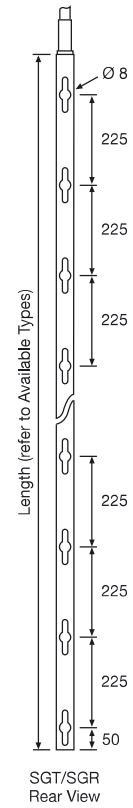
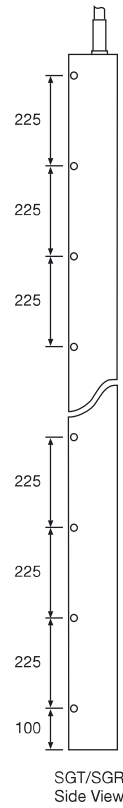
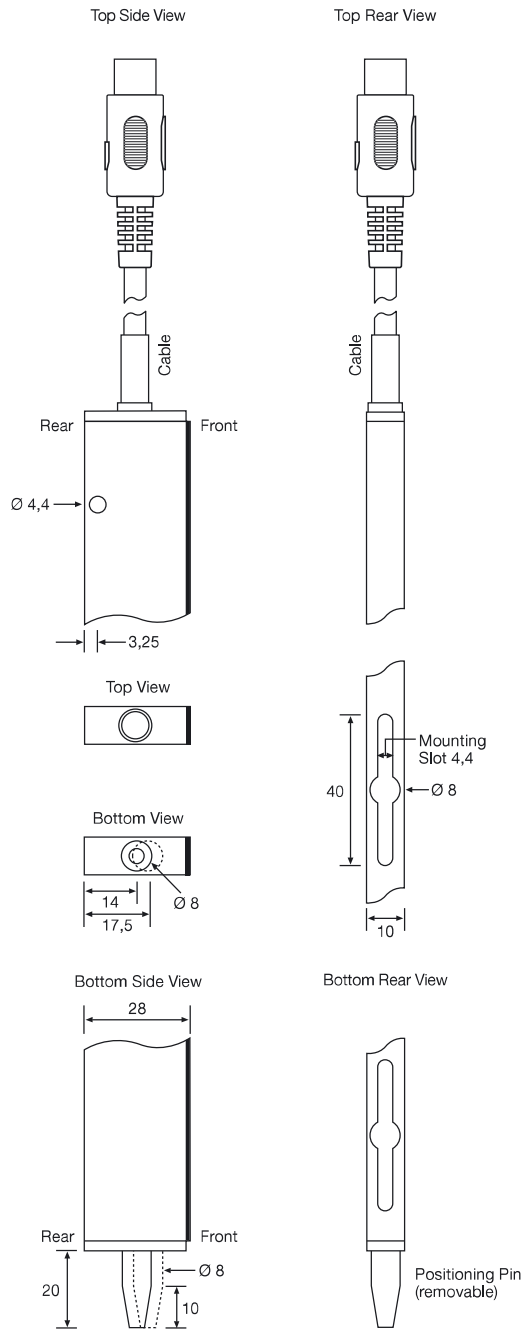
Receiver Detector	570 mm	425 mm	16	28 mm	SGR 057-016-A1-B-4F	SGR 057-016-A1-B-4	SGR 057-016-A1-B-0.5F	SGR 057-016-A1-B-0.5
	795 mm	650 mm	24		SGR 080-024-A1-B-4F	SGR 080-024-A1-B-4	SGR 080-024-A1-B-0.5F	SGR 080-024-A1-B-0.5
	1020 mm	845 mm	16	56 mm	SGR 102-016-B1-B-4F	SGR 102-016-B1-B-4	SGR 102-016-B1-B-0.5F	SGR 102-016-B1-B-0.5
		875 mm	32	28 mm	SGR 102-032-A1-B-4F	SGR 102-032-A1-B-4	SGR 102-032-A1-B-0.5F	SGR 102-032-A1-B-0.5
	1245 mm	1100 mm	40		SGR 125-040-A1-B-4F	SGR 125-040-A1-B-4	SGR 125-040-A1-B-0.5F	SGR 125-040-A1-B-0.5
	1470 mm	1295 mm	24	56 mm	SGR 147-024-B1-B-4F	SGR 147-024-B1-B-4	SGR 147-024-B1-B-0.5F	SGR 147-024-B1-B-0.5
		1320 mm	48	28 mm	SGR 147-048-A1-B-4F	SGR 147-048-A1-B-4	SGR 147-048-A1-B-0.5F	SGR 147-048-A1-B-0.5
	1695 mm	1545 mm	56		SGR 170-056-A1-B-4F	SGR 170-056-A1-B-4	SGR 170-056-A1-B-0.5F	SGR 170-056-A1-B-0.5
	1995 mm	1740 mm	32	56 mm	SGR 200-032-B1-B-4F	SGR 200-032-B1-B-4	SGR 200-032-B1-B-0.5F	SGR 200-032-B1-B-0.5
		1770 mm	64	28 mm	SGR 200-064-A1-B-4F	SGR 200-064-A1-B-4	SGR 200-064-A1-B-0.5F	SGR 200-064-A1-B-0.5
	2105 mm	1740 mm	32	56 mm	SGR 210-032-B1-B-4F	SGR 210-032-B1-B-4	SGR 210-032-B1-B-0.5F	SGR 210-032-B1-B-0.5
		1770 mm	64	28 mm	SGR 210-064-A1-B-4F	SGR 210-064-A1-B-4	SGR 210-064-A1-B-0.5F	SGR 210-064-A1-B-0.5

Note: 1. The transmitter SGT and the receiver SGR set must always have the same number of light beams and the same beam spacing  
 2. Special lengths are available upon request

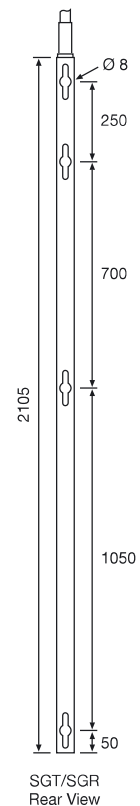
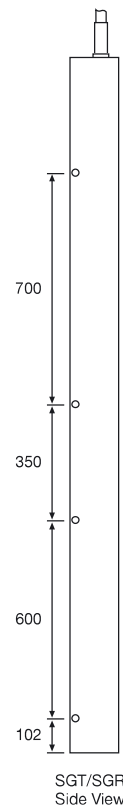
Dimensions and Descriptions

Slim Line

Details



057 to 200



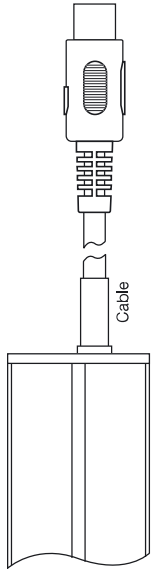
210 (only)

Dimensions and Descriptions

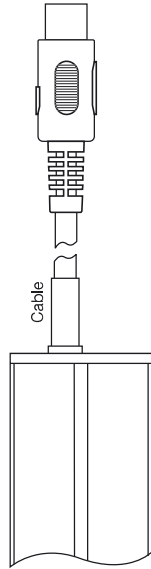
Leading Edge

Details

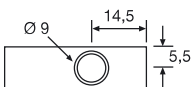
SGT  
Top Front View



SGR  
Top Front View

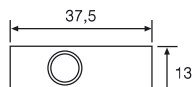


Top View



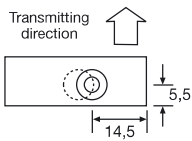
Transmitting direction  
↓

Top View



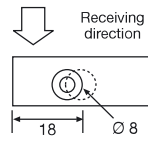
Receiving direction  
↑

Bottom View



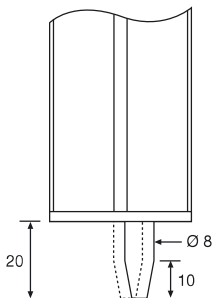
Transmitting direction  
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Bottom View

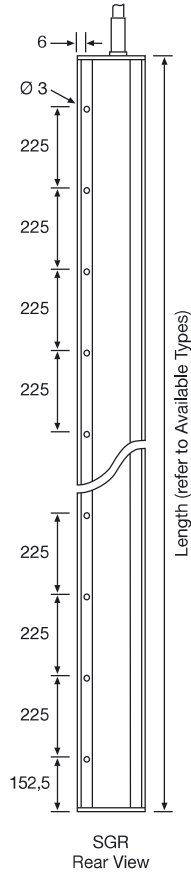
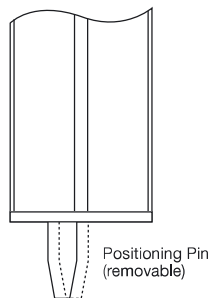


Receiving direction  
↓

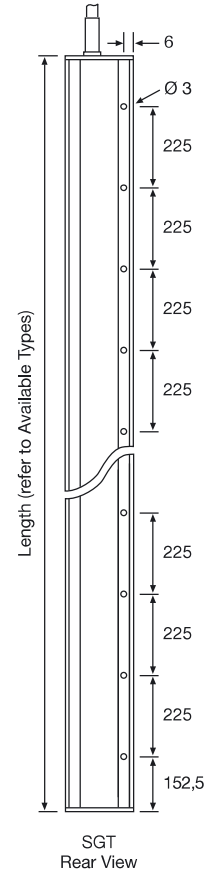
Bottom Front View



Bottom Front View



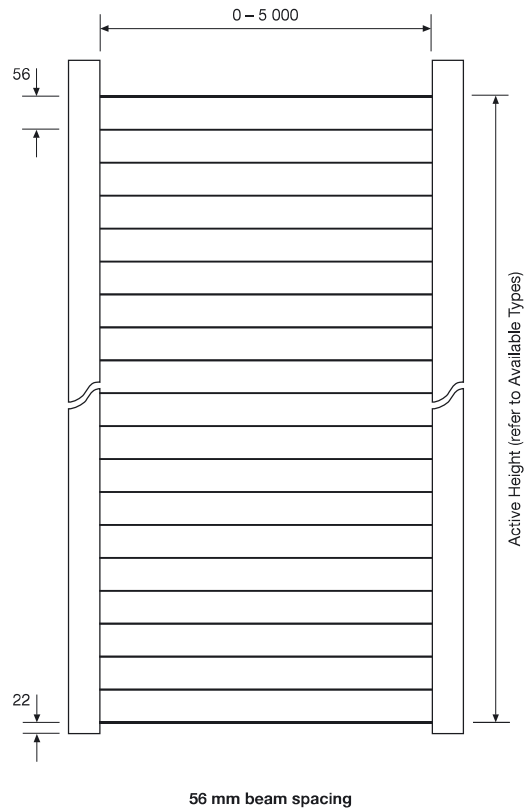
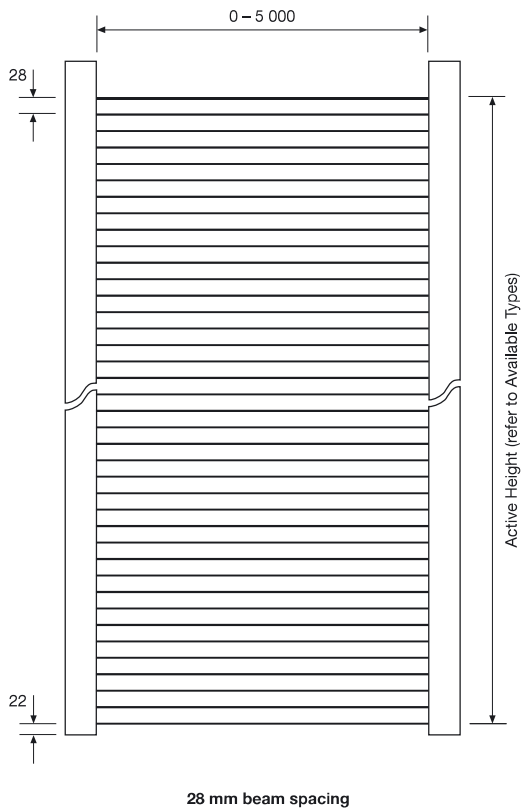
SGR  
Rear View



SGT  
Rear View

057 to 210

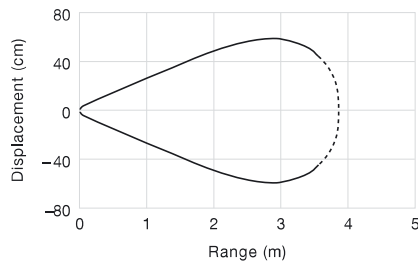
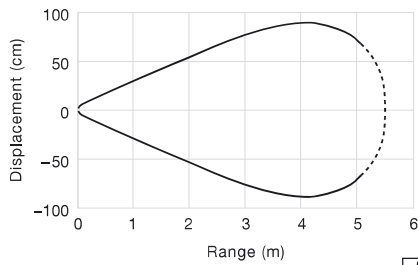
**Beam Patterns**



(Units in mm)

**Sensing Characteristics**

**Parallel Displacement**



**Extension Cables**

Installation	Sealing Class	Material	Connector	Transmitter	Receiver
				240° DIN plug	180° DIN plug
			Length	Order References	
Non-Flexible (Static)	IP 67	PVC	4 m	<b>CAG 5 S 4</b>	<b>CAH 5 S 4</b>
Flexible (Dynamic)				<b>CBG 5 S 4</b>	<b>CBH 5 S 4</b>

Telco reserves the right to change specifications without notice.