

SGR 18-242-052-C1-U-07-0.3-T6-5

Self-Contained Light Curtains

Light Curtains

Compatible Transmitter:

SGT 18-242-052-C1-U-01-0.3-T4-5



Product Data	
Function	Receiver
Operation Mode	Thru Beam
Supply Voltage	10 - 30 V dc
Connection	0.3 m cable with 6 pin, M8 plug + 5 m ext. cable
Sensing Range	12 m
Number of Channels	52
Output	Solid State Relay
Output Status	N.C./N.O.
Response	40 ms
Length	2420 mm
Active Height	2295 mm
Housing	12 mm x 14 mm
Features	Static Blanking Function.

Technical Data	
Supply Voltage	10 - 30 V dc
Reverse Polarity Protected	Yes
Short Circuit Protected	Yes
Current Consumption	40 mA
Output Rating	100 mA
Power On Indicator	Green LED
Output Indicator	Yellow LED
System Status Indicator	Red LED
Light Source	-
Profile Dimensions (w x d)	U Profile, 12 mm x 14 mm
Housing Material, Profile	Aluminium (black anodised)
Cable	6 x 0,13 mm²
Cable Sleeve	PVC Ø 4,5 mm

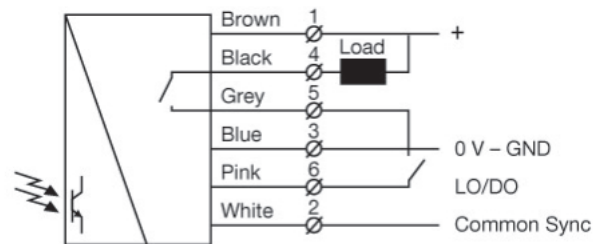
Channel spacing (Ch 1 excluded)	45 mm
Bottom spacing to Ch 1	35 mm
Spacing between Ch 1 and Ch 2	10 mm
Housing Material, Front cover (optional)	Polycarbonate

Environmental Data

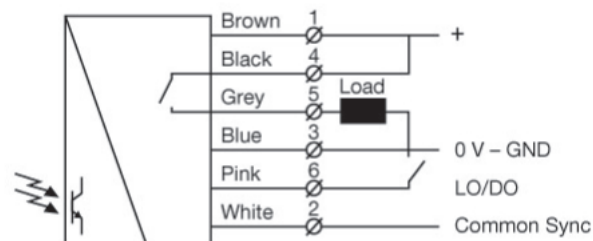
Operation Temperature	– 20 to +55 °C
Storage Temperature	– 40 to +80 °C
Sealing Class	IP 67
Light Immunity 5°	> 100 000 lux
EU directives	2011/65/EU (RoHS) - 2014/30/EU (EMC)
Standards	IEC 60068-2-6: 2007 (vibration). EN 61000-6-2: 2019 (EMC emission). EN 61000-6-3: 2007 +A1: 2011 (EMC immunity).

Approvals

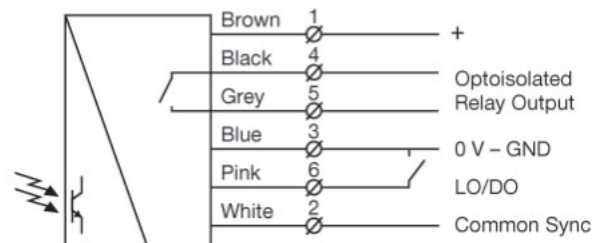
Wiring Diagram



SGR 18
Load as NPN output

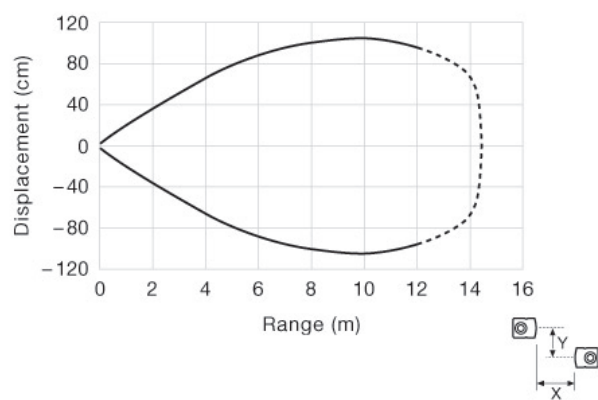


SGR 18
Load as PNP output

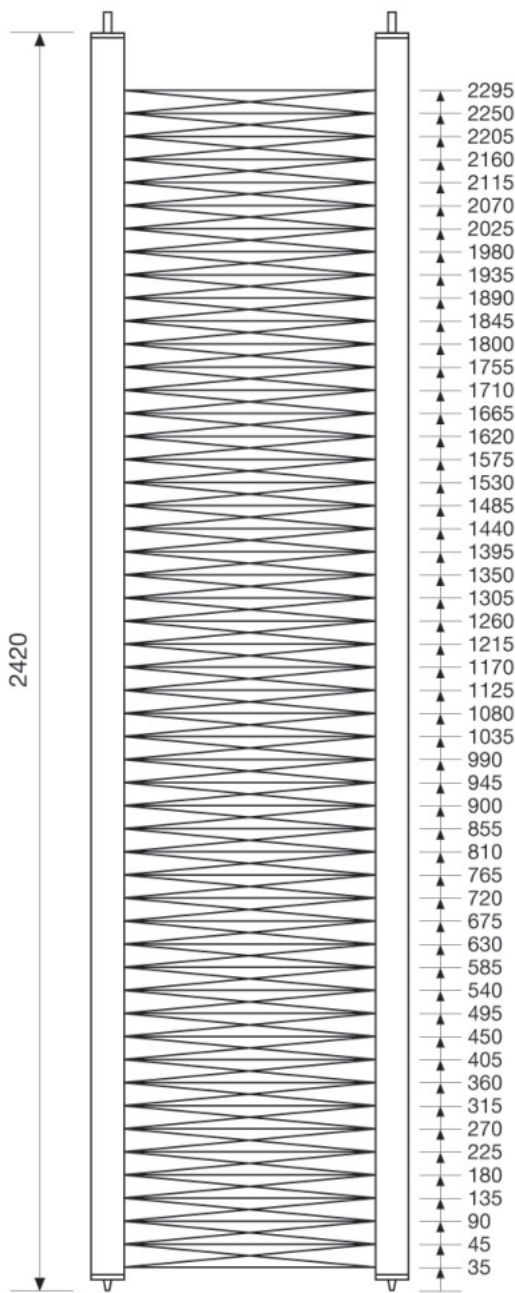


SGR 18
Solid state relay output

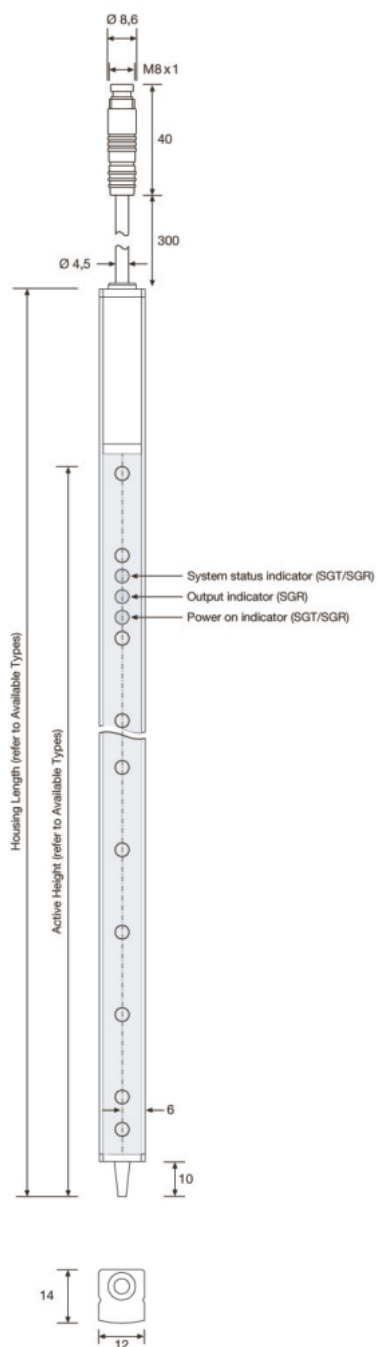
Parallel Displacement



Beam Patterns



Dimensions

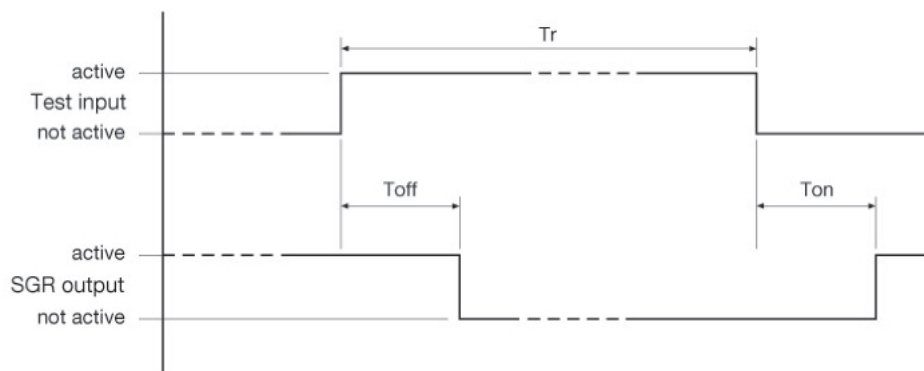


Timing Diagram

Ton (max/min)
300 ms / 50 ms

Toff (max/min)
60 ms / 1 ms

Tr (min)
100 ms

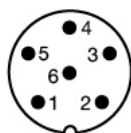


SGT/R response time graph

Connections

6 pin, M8

Sensor Plug
(Male)



Cable Plug
(Female)

