

Product Data

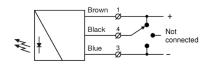
Electrical Data			
	SGT (Transmitter)	SGR (Receiver)	
Supply voltage	12 – 36 Vdc		
Current consumption	100 mA	50 mA	
Max. output load	=	200 mA	
Reverse polarity protected	Yes		
Short circuit protected	-	Yes	

Environmental Data	
Light immunity @ 5° incidence	> 100.000 lux
Temperature, operation	-20 to + 65 °C
Sealing class	IP 54
Approvals	(€

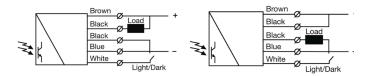
Available M	lodels			
	Model	Output	Output Mode	Sensing Range
Transmitter	SGT 2-200-040-020-A1-x-00-3F	-	-	0 – 4m. (slim line)
Receiver	SGR 2-200-040-020-A1-x-07-3F	Solid State Relay	Light/Dark	0 – 3 m. (leading edge)

Connection

Wiring Diagrams

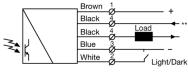


Transmitter SGT 2-40



Receiver SGR 2-40 as NPN

Receiver SGR 2-40 as PNP



** Max. 24 V ac / 36 V dc

Receiver SGR 2-40 with separate load supply.

Installation & Adjustments

Output Logic			
Detection	Output mode	Output status	Output indicator (yellow led)
Object Present	Dark operated (White wire connected to Blue wire)	Closed	On
	Light operated (White wire disconnected)	Open	Off
Object Absent	Dark operated (White wire connected to Blue wire)	Open	Off
	Light operated (White wire disconnected)	Closed	On

On the SG 2-40 no initial set up or adjustments are required, due the automatic signal-tracking (AST) feature, that adjusts automatically each individual beam on the system.

- 1 Mount the transmitter (SGT) and receiver (SGR) facing each other and correctly aligned.
- Wire the sensor according to the wiring diagram. Make sure the load does not exceed 200 mA. 2
- 3 Check for correct wiring before turning power on.
- When the power on indicator (green LEDs) are on, the system is operating. If the Status indicator (red LED) is constant on the SGR cannot see the SGT.
 - In dynamic installations:
- For initial setup, ensure that the doors where the light curtains are installed are in the Note: fully open position.
 - - In order to prevent vandalism Telco recommends that the detectors are placed at least 5 mm in the door.

SGT Control Input			SGT
Model	Black wire connected to 0V - GND	Black wire not connected (NC)	Black wire connected to +supply
SGT 2-200-040-020-A1-x-00-3F	Upper 20 channels are disabled	No channels are disabled	Upper 10 channels are disabled

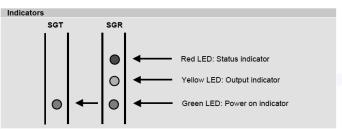
The upper channels can be disabled in the SGT by connecting the black wire on the SGT to + supply or 0V - GND as described above.

The SGR will detect that channels are disabled in the SGT within few seconds after power is turned on and will now not respond to obstructions on these channels.

When disabling channels or changing the number of channels to be disabled do always follow the below precipioned for store strictly.

the below mentioned 5 steps strictly.

1	Remove power to the SGR and the SGT.
2	Connect the black wire on the SGT to the correct position as mentioned above.
3	Remove any obstruction between the rails that are not in alignment with the channels with are going to be disabled.
4	Turn on the power to the SGR and the SGT.
5	Do always leave the black wire connected to + supply or 0V - GND when disabling channels.



Troubleshooting		
Probable Reason	Corrective Action	
1. Symptom: Status indicator (Red LED) on SGR is constant on.		
SGT is not emitting	Check supply and cable to the SGT	
SGT is disabled	Enable the SGT	
The rails are out of sensing range	Reduce the distance between the rails.	
The synchronization beam is blocked	Remove obstruction or replace detectors.	

2. Symptom: Output indicator (Yellow LED) is flashing		
Severe electrical interference	Remove SGR and SGT supply cable from high voltage cables	
Severe ambient light	Change position of SGT and SGR	
Cross talk from another light curtain	Change position of SGT and SGR	

3. Symptom: Output indicator (Yellow LED)	on SGR is constant on.
One or more beams are blocked	Remove obstruction
SGR can not disable/blank channels	Remove obstruction – check black wire connection on SGT

Position of Channels & Channel spacing

46 mm channel spacing

