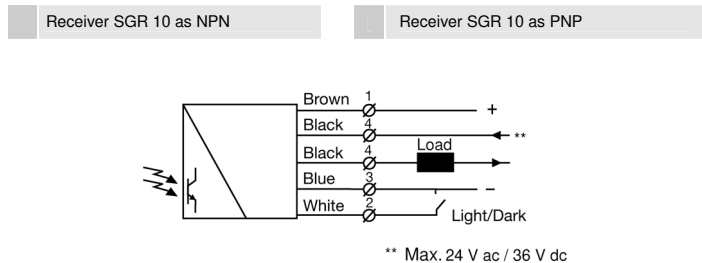
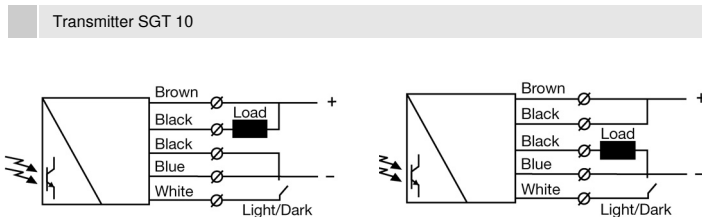
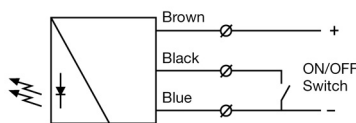


Product Data			
Electrical Data			
	SGT (Transmitter)	12 – 36 Vdc	SGR (Receiver)
Supply voltage			
Current consumption	100 mA		50 mA
Max. output load	-		200 mA
Reverse polarity protected		Yes	
Short circuit protected	-		Yes
Environmental Data			
Light immunity @ 5° incidence		> 100.000 lux	
Temperature, operation		-20 to + 65 °C	
Sealing class		IP 67	
Approvals			

Available Models				
	Model	Output	Output Mode	Sensing Range
Transmitter	SGT 10-xxx-0xx-x1-C-00-x5	-	-	1 – 10m.
Receiver	SGR 10-xxx-0xx-x1-C-07-x5	Solid State Relay	Light/Dark	

**Connection**

**Wiring Diagrams**



Receiver SGR 10 with separate load supply.

**Installation & Adjustments**

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

Adjustment	
On the SG10 no initial set up or adjustments are required, due the automatic signal-tracking (AST) feature, that adjusts automatically each individual channel on the system.	
1	Mount the detectors in correct position and correctly aligned.
2	Wire the sensor according to the wiring diagram. Make sure the load does not exceed 200 mA.
3	Check for correct wiring before turning power on. Select Light/Dark function if required.
4	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.

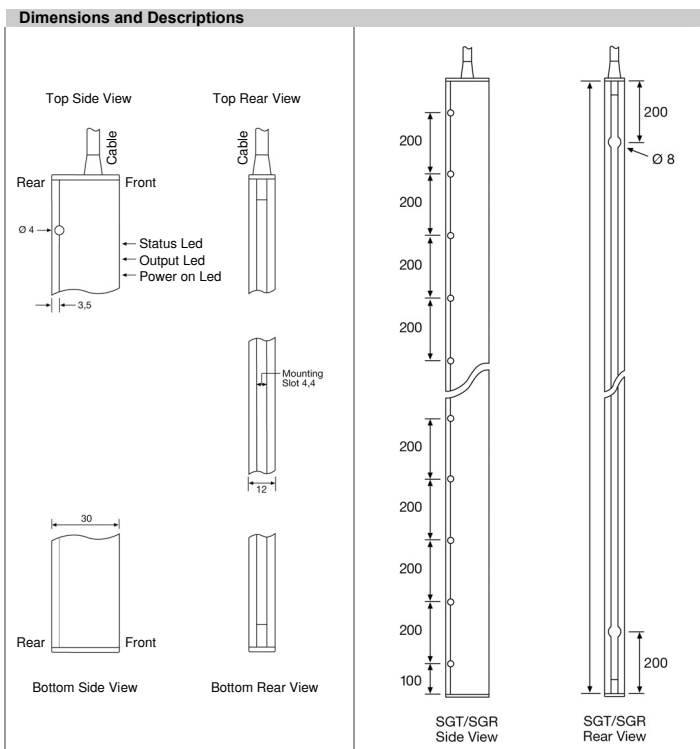
Test Input		SGT 10
The transmitter can be externally disabled and enabled, via the control wire, for test purposes. The test input requires the control wire to be connected to – (negative) supply wire. Make sure no object is present in the detection area when transmitter is disabled for test. When the transmitter is disabled, the receiver will change output.		
Enable transmitter	Open (off) control switch.	
Disable transmitter	Close (on) control switch.	

Indicators	
Red LED:	Status indicator
Yellow LED:	Output indicator
Green LED:	Power on indicator

Troubleshooting	
Probable Reason	Corrective Action
1. Symptom: Status indicator (Red LED) on SGR is constant on.	
TX is not emitting	Check supply and cable to the SGT
SGT is disabled	Enable the SGT
One or more beams blocked	Remove obstruction

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

Housing Length & Number of Channels			
Housing Length	Active height	Number of Channels	Beam Spacing
850 mm	669 mm	8	92 mm
	715 mm	16	46 mm
1250 mm	1037 mm	12	92 mm
	1083 mm	24	46 mm
1600 mm	1405 mm	16	92 mm
	1451 mm	32	46 mm
2000 mm	1773 mm	20	92 mm
	1819 mm	40	46 mm
2100 mm	1773 mm	20	92 mm
	1819 mm	40	46 mm



**Warning**  
 This product is not a safety system and must not be used as such. It is not designed for personnel safety applications, and must not be used as a stand alone personnel safety system.