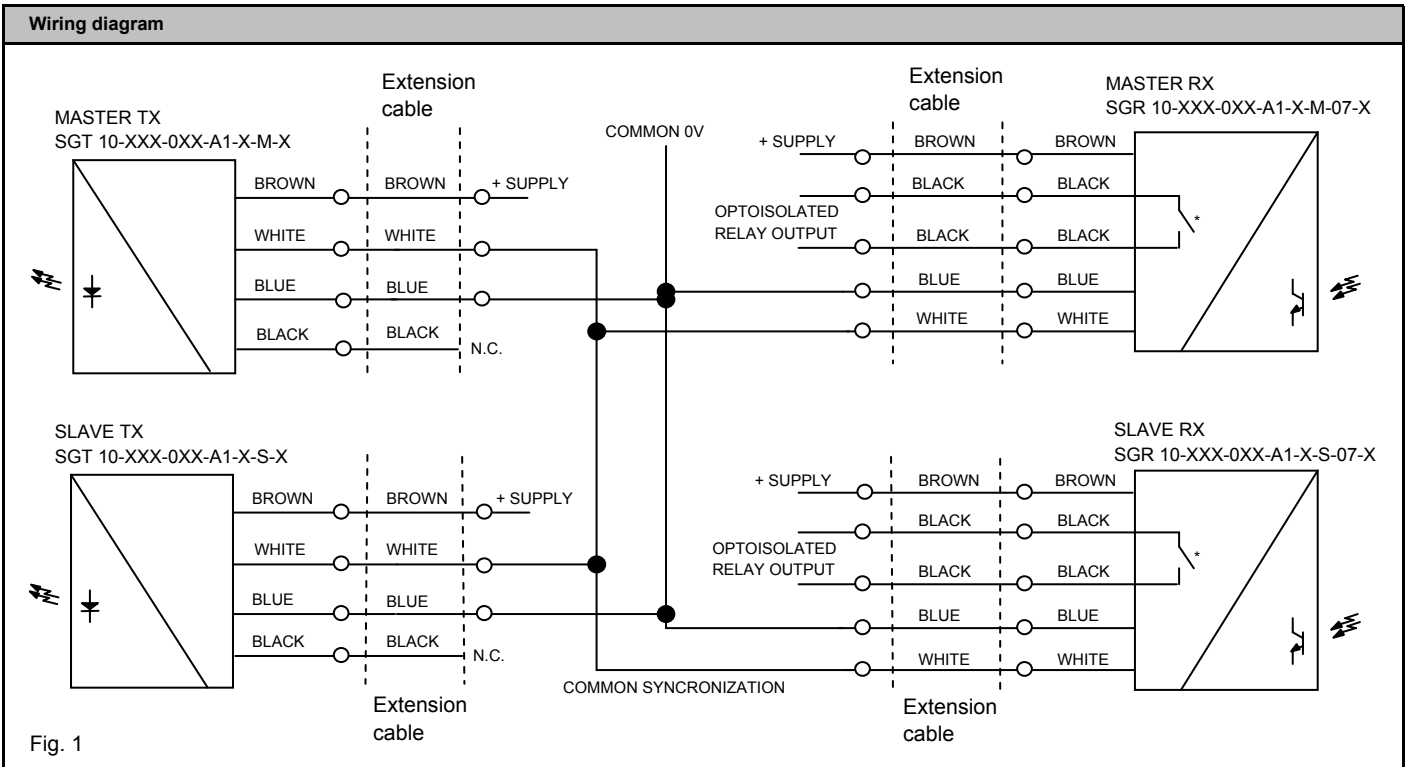


Technical Data		
Sensing range	2.5 - 10 m	
Supply voltage	11 - 36 V dc	
Voltage ripple	15% (within supply range)	
Reverse polarity protected	Yes	
Short circuit protection	Yes	
Inductive load protection	Yes	
Power consumption	Transmitter (one): max. 100 mA.	Receiver (one): 50 mA
Maximum output load	200 mA, 36 V dc	
Light immunity	> 100.000 lux @ 5°	
Temperature, operation	-20 to + 65 ° C.	

Output					
Model	Output type	Output mode	Object	Output switch	Yellow LED
SGR 10-XXX-0XX-A1-X-M-07-X	OPTO RELAY	Light operated (NC)	Absent	Closed	On
		Light operated (NC)	Present	Open	Off
SGR 10-XXX-0XX-A1-X-S-07-X	OPTO RELAY	Light operated (NC)	Absent	Closed	On
		Light operated (NC)	Present	Open	Off



* Relay type: Normally Open

Installation

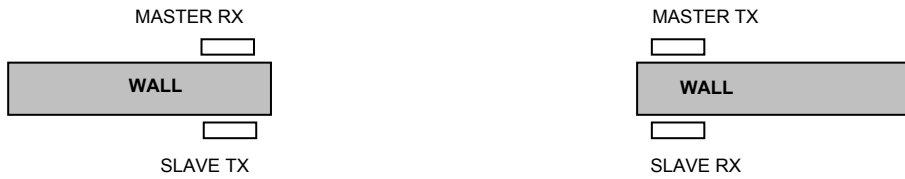


Fig. 2

<p>The diagram shows two vertical detector units, TX and RX. The TX unit has a green LED labeled 'Power on indicator'. The RX unit has three LEDs: a red LED labeled 'Alarm indicator', a yellow LED labeled 'Output indicator', and a green LED labeled 'Power on indicator'.</p>	<p>- Mount the detectors in correct position and correctly aligned according to Fig. 2 (Note *)</p>
	<p>- It is recommended that the detectors are placed at least 5mm from edges for mechanical protection.</p>
	<p>- Wire the detectors according to the wiring diagram. Make sure the load does not exceed 200 mA.</p>
	<p>- Check for correct wiring before turning power on (Fig. 1).</p>
	<p>- When the Power on indicators (green LEDs) are on, the system is operating.</p>
	<p>- Make sure that the Output indicator (yellow LED) changes when beams are blocked.</p>
<p>- If the Alarm indicator (red LED) is constant on the RX is not connected to master TX.</p>	
<p>* The master TX and master RX can run separately if required.</p>	

Fig. 3

Troubleshooting

Symptom	Probable Reason	Corrective Action
1. Alarm indicator on RX is constant on.	- Master TX is disabled	Check supply and cable to the master TX
	- No synchronization signal	Connect RX to master TX
2. Output indicator is flashing.	- Severe electrical interference	Remove RX and TX supply cable from high voltage cables
	- Severe ambient light	Change position of TX and RX
3. Yellow LED on RX is constant off.	- RX cannot see TX	Remove obstruction