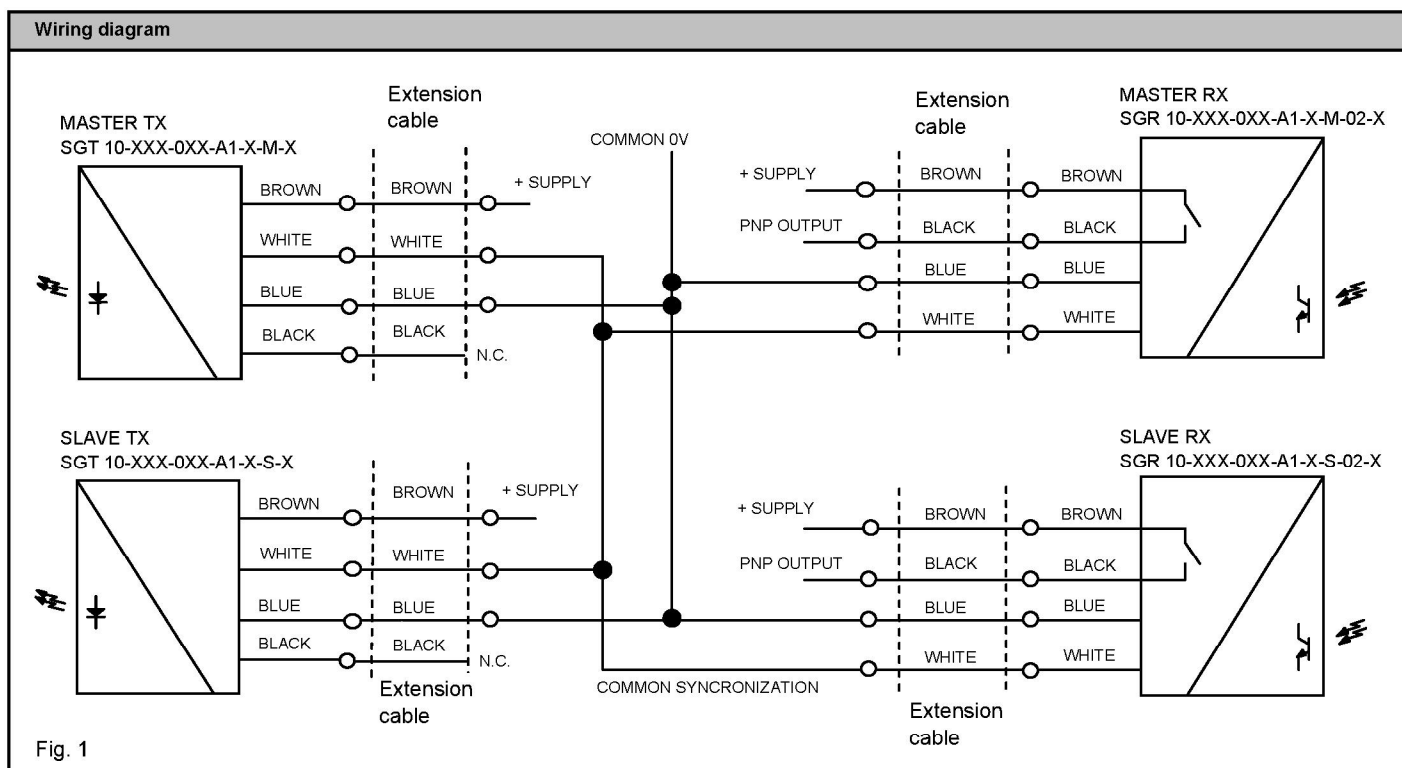


| Technical Data             |                                                       |
|----------------------------|-------------------------------------------------------|
| Sensing range              | 2.5 - 10 m                                            |
| Supply voltage             | 11 - 36 V 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-02-X | OPTO RELAY  | Light operated (NC) | Absent  | Closed        | On         |
|                            |             | Light operated (NC) | Present | Open          | Off        |
| SGR 10-XXX-0XX-A1-X-S-02-X | OPTO RELAY  | Light operated (NC) | Absent  | Closed        | On         |
|                            |             | Light operated (NC) | Present | Open          | Off        |



## Installation



Fig. 2

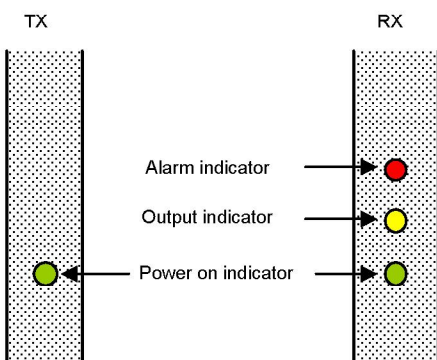


Fig. 3

- Mount the detectors in correct position and correctly aligned according to Fig. 2 (Note \*)
- It is recommended that the detectors are placed at least 5mm from edges for mechanical protection.
- Wire the detectors according to the wiring diagram. Make sure the load does not exceed 200 mA.
- Check for correct wiring before turning power on (Fig. 1).
- When the Power on indicators (green LEDs) are on, the system is operating.
- Make sure that the Output indicator (yellow LED) changes when beams are blocked.
- If the Alarm indicator (red LED) is constant on the RX is not connected to master TX.

\* The master TX and master RX can run separately if required.

## Troubleshooting

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