

**SMR 7620 TP J****Thru Beam**

Standard, Photoelectric Sensors

**Compatible Transmitter:**

SMT 7000 TP J



| Product Data      |  |
|-------------------|--|
| Function:         | Receiver                               |
| Supply Voltage:   | 10 - 30 V dc                           |
| Light Source:     | -                                      |
| Housing Material: | Plastic                                |
| Housing:          | M18 x 1                                |
| Control Feature:  | Sensitivity pot. and light/dark switch |
| Connection:       | 4 pin, M12 plug                        |
| Sensing Range:    | 20 m                                   |
| Output:           | NPN/PNP                                |
| Output Status:    | N.C./N.O.                              |
| Operation Mode:   | Thru Beam                              |

| Technical Data              |                          |
|-----------------------------|--------------------------|
| Supply Voltage:             | 10 - 30 V dc             |
| Voltage Ripple:             | 15 %                     |
| Reverse Polarity Protected: | Yes                      |
| Short Circuit Protected:    | Yes                      |
| Current Consumption:        | 15 mA                    |
| Max. Output Load:           | 120 mA / 30 V dc         |
| Max. Residual Voltage:      | 2 V                      |
| Max. Operation Frequency:   | 250 Hz                   |
| Power On Indicator:         | Green LED                |
| Output Indicator:           | Yellow LED               |
| Hysteresis:                 | Approx. 15 - 20 %        |
| Light Source:               | -                        |
| Opening Angle:              | +/- 6°                   |
| Emission Angle:             | -                        |
| Cable:                      | 4 x 0,14 mm <sup>2</sup> |

|                                  |               |
|----------------------------------|---------------|
| Response Time ton / toff:        | 2 ms / 2 ms   |
| Housing Material Sensor Housing: | Polycarbonate |
| Housing Material Lens Cover:     | Polycarbonate |
| Cable Sleeve:                    | PVC Ø 4,0 mm  |
| Test Input:                      | -             |
| Control Input:                   | -             |

| Environmental Data     |                    |
|------------------------|--------------------|
| Vibration:             | 10 - 55 Hz, 0,5 mm |
| Shock:                 | 30 g               |
| Operation Temperature: | -20 to +60 °C      |
| Storage Temperature:   | -40 to +80 °C      |
| Sealing Class:         | IP 67              |
| Light Immunity 5':     | > 20 000 lux       |
| Light Immunity 15':    | -                  |

### Approvals



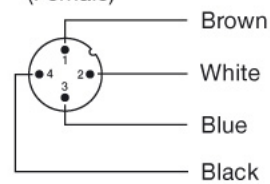
### Connections

#### 4 pin, M12

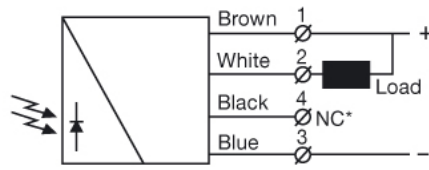
Sensor Plug  
(Male)



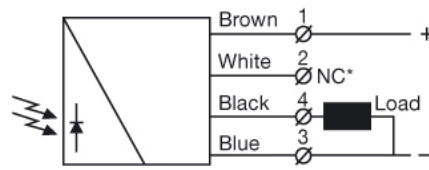
Cable Plug  
(Female)



Wiring Diagram

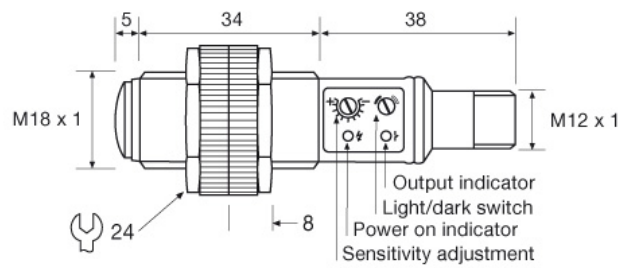


\*Do not connect black wire  
Load as NPN



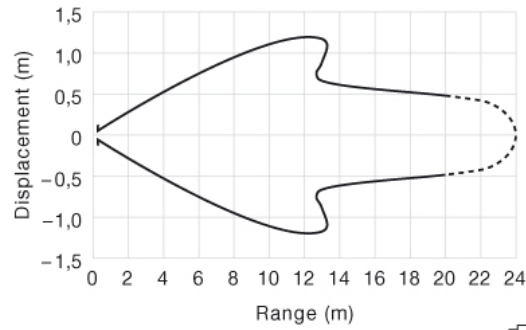
\*Do not connect white wire  
Load as PNP

Dimensions

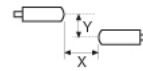


Sensing Characteristics

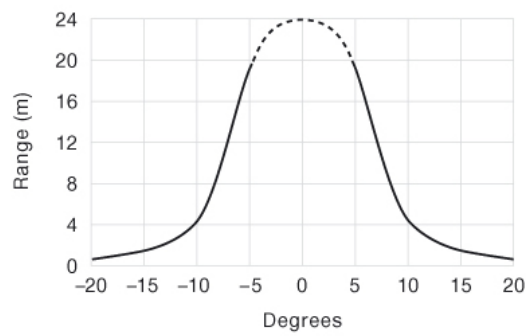
Parallel Displacement



SMT 7000 and SMR 7x20



Angular Displacement



SMR 7x20

