

SM30RW3REQ1

Opposed Mode Sensor (Receiver)

| Technical data | |
|------------------------|----------------------|
| Туре | SM30RW3REQ1 |
| ID | 3037115 |
| Optical data | |
| Function | Opposed mode sensor |
| Operating mode | Receiver |
| Wavelength | 880 nm |
| Range | 060000 mm |
| Operating voltage | 20250 VAC |
| Readiness delay | ≤ 100 ms |
| Response time typical | < 16 ms |
| Dimensions | Ø 30 mm |
| Lens | Acrylic |
| Electrical connection | Connector, 1/2", PVC |
| Number of cores | 4 |
| Ambient temperature | -40+70 °C |
| Protection class | IP67 |
| Excess gain indication | LED |
| Tests/approvals | |

Features

Functional principle

Opposed mode sensors consist of an emitter and receiver. They are installed opposite each other so that the light from the emitter is aimed directly at the receiver. When an object interrupts or weakens the light beam, the sensor switches. Opposed mode sensors are the most reliable photoelectric sensors for detection of opaque targets. An excellent contrast between light and dark conditions and an extremly high excess gain are typical of this sensing mode, thus allowing operation over larger distances and under difficult conditions. Excess gain curve Excess gain in relation to the distance