

Photoelectric Sensors



Photoelectric sensors

Diffused
Retro-reflective
Thru-beam
Fiber-optic



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General information

Diffused mode

- Sensing distances up to 800mm
- Subcompact, compact and cylindrical models
- Choice of quick disconnect, cable or terminal connection
- Light on or dark on operation

Retro-reflective mode

- Sensing distances up to 5 m
- Subcompact, compact and cylindrical models
- Choice of quick disconnect, cable or terminal connection
- Light on or dark on operation

Thru-beam

- Sensing distances up to 20m
- Compact models
- Terminal connection
- Light-on or dark-on operation
- Two different housings (Emitter/Receiver)

Fiber-optic cable for use with small objects

- Retro-reflective and thru-beam

Applications

Photoelectric sensors cover a broad range of applications owing to three operating principles:

- Diffuse reflective sensors detect light-reflecting objects.
- Retro-reflective sensors with reflector detect opaque objects as the result of an obstruction in the light beam.
- Thru-beam photoelectric sensors detect opaque objects similarly to retro-reflective photoelectric sensors.

Accessories extend the scope of possible applications. Fiber-optic waveguides, as an add-on, detect extremely small objects and operate at high ambient temperature or under cramped installation conditions. Depending on design, they operate as diffuse reflective sensors or as thru-beam photoelectric sensors. A dust free, clean environment ensures reliable operating.