

Contrinex Photoelectric Sensor



Robust, self-contained photoelectric sensors with an integrated IO-link, feature compact housings, large sensing range and patented UV technology making it ideal for limited-space applications and challenging environments

Features and Advantages

Excellent color and contrast recognition

Provides improved object detection

IP67 rated, Ecolab approved enclosure

Enables use in outdoor applications

Sensors available in cubic and cylindrical housing working on diffuse, reflex and through-beam operating principles

Offers design flexibility

Smart communication system

- Contains integrated IO-link
- Continuously monitors process data
- Continuously diagnoses sensor status
- Offers advanced parameter settings and sensitivity adjustment
- Makes check of sensor ID easy to ensure sensor position

ASIC technology

- Offers first-class sensing ranges, trimmed in production
- Regulates emitting current
- Provides mutual interference immunity
- Allows adjustment processing via potentiometer or teach button
- Stabilizes alarm processing
- Contains integrated IO-link



Photoelectric Sensors



Cubic Photoelectric sensor



Cylindrical Photoelectric sensor



Subminiature Photoelectric sensor

Diffuse sensor with background suppression

- Has a 300mm sensing range on white and gray; 250mm on black background
- Uses a dual output with stability alarm
- Provides mutual interference immunity
- Features pinpoint LED

UV light technology for transparent object detection

- Extends sensing range up to 1200mm on special reflectors
- Enables safe detection of thinnest transparent materials
- With its auto-collimated, polarized UV light beam eliminates the blind zone, allowing detection of targets close to sensor
- Makes adjustments by teach button or IO-link easy
- Provides mutual interference immunity

Smallest opto sensor with fully integrated electronics

Detects objects in narrow spaces, using the D4 and M5 versions

Markets and Applications

Industrial Automation

- Packaging machines
- Food and beverage
- Filling plant
- Textile
- Machine tools
- Logistics



Food and Beverage



Textile



Machine Tools



Logistics

Specifications

REFERENCE INFORMATION

Mounting: Embeddable
Designed In: Millimeters
RoHS: Yes
REACH: Yes
Type of Light: UV
Sensitivity adjustment: Potentiometer

ELECTRICAL

Voltage (max.): 36V DC
Current (max.): 200mA
Output: Light-ON/Dark-ON
Polarity: PNP/NPN
Response time: 0.80 to 4.80 milliseconds

MECHANICAL

Sensing distance (mm): 1 to 50,000
Switching Frequency: 5 kHz
Sensing speed: 1 to 5 kHz

PHYSICAL

Housing size (mm): C12, C23, 4155, M4, M5, M12, M18, M18 Plastic
Connection:
Cable — (PVC 2m), (PVC 2m, 3 Wire), (PVC 2m, 4 Wire)
Connector — M12, (M8, 3-Pin), (M12, 4-Pin), (M12, 5-Pin)
Pigtail — (PVC 0.2m, M8, 3-Pin)
Operating Temperature: -25 to +55°C

Ordering Information

Series No.	Product Description	Sensing Distance (mm)
120254	Photoelectric Sensor	1.00 to 50,000