VAUTOMATION DIRECT









Autonics







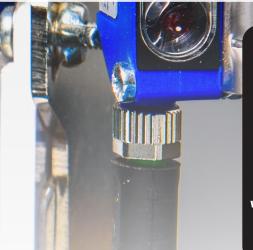




ODATALOGICTHE VISION IS YOURS

Micro Detectors

Photoelectric Sensors



Up-to-date price list: www.automationdirect.com/pricelist

FREE Technical Support: www.automationdirect.com/support

FREE Videos:

www.automationdirect.com/videos

FREE Documentation: www.automationdirect.com/documentation

FREE CAD drawings: www.automationdirect.com/cad



Photoelectric Sensors

presence or distance using light. These sensors use a light in light intensity reflected or interrupted by the target object.

Photoelectric sensors, also called photo eyes, detect object. With no physical contract required, photo eyes can detect objects at extremely close range or out to a meter or more, source from an emitter and a receiver that detects changes depending on the specific photo eye technology employed.





What type of photoelectric sensor is best for me?

but really only four basic technologies: through-beam, reflective, diffuse, and background suppression. The chart

There are many different styles of photoelectric sensors, describes some advantages and disadvantages of each technology.

Туре	Operation	Advantages	Disadvantages
Through-beam		Most accurateLongest sensing rangeVery reliable	Must install at two points on system: emitter and receiver Costly - must purchase both emitter and receiver
Reflective	30333333 C 1033313333 C 10333133333 1033133333 1033133333 1033133333	 Cost less than through-beam Only slightly less accurate than through-beam Sensing range better than diffuse Very reliable 	Must install at two points on system: sensor and reflector Slightly more costly than diffuse Sensing range less than through-beam
Diffuse		Only install at one point Cost less than through-beam or reflective	Less accurate than through-beam or reflective More setup time involved
Background Supression	BACKGROSZO	· Effective with reflective backgrounds	Cost more than diffuse, reflective or through-beam Most setup time required

Photoelectric Sensor Types

Photoelectric sensors allow non-contact detection of material, sensing distance, and the output signal required objects using red or infrared light, or lasers. A variety of sensor types are available, depending on the target

for the application.



For the latest prices, please check AutomationDirect.com.

General Purpose

General purpose photoelectric sensors allow non-contact detection of objects using red or infrared guided light. IP69K sensors are rated for harsh duty (food grade/washdown) applications.



Clear object detection sensors are a special type of retroreflective photoelectric sensor that can detect transparent objects such as glass or plastic.



Distance Measuring

Distance measuring sensors can measure the distance of objects at long ranges using a time of transit calculation. For shorter distances, high-resolution CMOS technology models offer greater precision using triangulation.

Discrete Distance

Discrete distance sensors are diffuse laser sensors that detect presence via reflected laser light from the target object and use time-of-light distance calculations for background suppression. These sensors operate consistently regardless of the object's material, color, or brightness.





Dark & Shiny Object Detection

Dark objects absorb light instead of reflecting it, making it difficult for standard diffuse photoelectric sensors to detect. Shiny objects overly reflect and can cause objects to be detected more than once. Dark and shiny object detection sensors use blue light, which is less likely to be absorbed by a dark object and is less likely to cause multiple reads or misdetections from shiny objects.



mPHS-2 Photoelectric Sensors

VAUTOMATION DIRECT

1 - 8 0 0 - 6 3 3 - 0 4 0 5

Photoelectric Sensors

Photoelectric Sensor Types (continued)

Fiber Optic Sensors

Fiber optic sensors typically consist of two devices specified separately: the photoelectric amplifier and the fiber optic cable. The fiber cable includes the optic sensor head and cabling needed to transmit light to and from the amplifier. Because the amplifier is separate from the sensor head, these sensors work well in tight spots and applications with high electrical noise.





Color Sensors

Color sensors use pre-defined reference colors to reliably select colored objects in high-speed automation processes. They are capable of evaluating up to 3 colors simultaneously.



Contrast print mark sensors determine contrast by sensing reflected light to detect the difference in the wavelength of the reflected light between the mark and background.





Fork Sensors

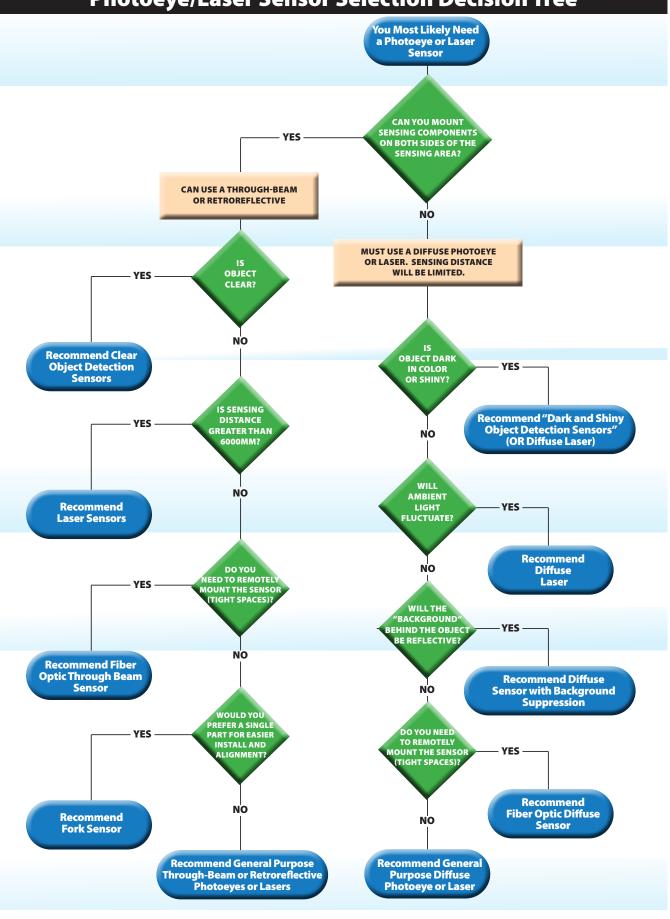
Fork sensors (also called slot sensors or "U" sensors) offer advantages over standard through-beam sensors including identical mechanical/optical axis, operational reliability and repeatability with transmitter and receiver built into the same housing.

Light Grids

Industrial light grids, also known as measuring light curtains, light barriers, or area sensors, are optoelectronic sensors used in industrial automation for a variety of applications. Unlike safety light grids, which focus on protecting personnel from hazardous machinery, industrial light grids focus on object detection, measurement, and control. These non-contact sensors have high accuracy, a fast response time, and are built to withstand harsh industrial environments.







General Purpose Photoelectric Sensors

General-purpose photoelectric sensors, in tubular or rectangular body styles, are suitable for many presence sensing applications. They use infrared or visible red light technology and are available in diffuse, diffuse with background suppression, retroreflective, and throughbeam sensing styles.

4mm and 5mm Tubular

CONTRINEX D04 and M5 Series Stainless Steel

- 4 and 5mm diameters
- Diffuse and through-beam styles
- IO-Link v1.0 on select PNP models







- Sensing distances up to 600mm
- · Stainless steel housing
- IP67 protection rating



8mm Tubular

▼AUTOMATIONDIRECT HE Series Stainless Steel

- 8mm diameter
- Through-beam sensing style
- 10 kHz switching frequency





- 1m sensing distance
- · Stainless steel housing
- IP67 protection rating



ProSense F8 Series Stainless Steel

- 8mm diameter
- Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles





- Sensing distances up to 2.2m
- Stainless steel housing
- IP67 protection rating



12mm Tubular

Achie Ve™ FDM Series Metal

- 12mm diameter
- Diffuse, polarized retroreflective, and through-beam sensing styles
- Teach function or potentiometer sensitivity adjustment



- Sensing distances up to 4m
- Nickel-plated brass housing
- IP67 protection rating



1 - 8 0 0 - 6 3 3 - 0 4 0 5

12mm Tubular (continued)

CONTRINEX M12 Series Metal

- 12mm diameter
- Diffuse, retroreflective, and through-beam sensing styles
- IO-Link V 1.0 on PNP models





- Sensing distances up to 10m
- Chrome-plated brass housing
- IP67 protection rating





18mm Tubular

Achie√e™ FKL Series Laser Metal

- 18mm diameter
- Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- Axial or right-angle optical head models







- Sensing distances up to 50m
- Class 1 and 2 red lasers
- Nickel-plated brass housings
- IP67 protection rating



▼AUTOMATIONDIRECT FB Series M18 Plastic

- 18mm diameter
- Diffuse, polarized retroreflective, and through-beam sensing styles
- Potentiometer sensitivity adjustment on diffuse models



- Sensing distances up to 8m
- ABS plastic housing
- IP65 or IP67 protection rating







VAUTOMATIONDIRECT[§]

18mm Tubular (Continued)

▼AUTOMATIONDIRECT C18 Series Metal

- 18mm diameter
- Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- Axial or right-angle optical head models



- · Sensing distances up to 6m
- Chrome-plated brass housing
- IP67 protection rating



▼AUTOMATIONDIRECT FF Series Stainless Steel

- 18mm diameter
- Diffuse, polarized retroreflective, and through-beam sensing styles







- · Sensing distances up to 20m
- 316L stainless steel housing
- IP68/69K protection rating



▼AUTOMATIONDIRECT FFRS Series Stainless Steel

- 18mm diameter
- Diffuse with background suppression sensing style



- Sensing distances up to 130mm
- 316L stainless steel housing
- IP68/69K protection rating





▼AUTOMATIONDIRECT MQ Series AC Powered Plastic

- 18mm diameter
- Diffuse with background suppression sensing style
- 20-253 VAC operating voltage





- · Sensing distances up to 100mm
- PBT housing
- IP67 protection rating





▼AUTOMATIONDIRECT MV Series AC Powered Plastic

- 18mm diameter
- · Diffuse, polarized reflective, and through-beam sensing styles
- · 20-253 VAC operating voltage







- Sensing distances up to 16m
- PBT housing
- IP67 protection rating





CONTRINEX

M18 Series Plastic

- 18mm diameter
- · Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- IO-Link v1.0 on PNP models







- · Sensing distances up to 30m
- · ABS plastic housing
- IP67 protection rating





IO-Link

CONTRINEX M18 Series Stainless Steel

- 18mm diameter
- · Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- IO-Link v1.0 on PNP models







- Sensing distances up to 30m
- · Stainless steel housing
- IP67 protection rating







Sense F18 Series 18mm Plastic

- 18mm diameter
- · Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles





· Sensing distances up to 25m

• Sensing distances up to 800ft

• 303 stainless steel housing

• IP69 protection rating

- PBT housing
- IP67 protection rating





30mm Tubular

E58 Series Stainless Steel

- 30mm diameter
- Diffuse reflective with background suppression, retroreflective, polarized reflective, and through-beam sensing style
- · High excessive gain

















VAUTOMATIONDIRECT[§]

Rectangular Sensors

▼AUTOMATIONDIRECT GX Series Plastic

- Diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- 18mm diameter threaded lens with mounting hex nut included





- · Sensing distances up to 20m
- 52.6 X 19.1 X 36.1mm LCP and PEI plastic housings
- IP67 protection rating





▼AUTOMATIONDIRECT® QM Series Plastic

- · Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- Sensing distances up to 30m
- 21 X 12.8 X 31.2mm plastic housings
- IP67 protection rating





▼AUTOMATIONDIRECT CX Series Plastic

- Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles

- · Sensing distances up to 6m
- 30 X 15 X 30mm plastic housings
- IP65 protection rating



▼AUTOMATIONDIRECT FM Series Stainless Steel

- · Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- Sensing distances up to 10m



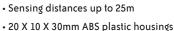


- 21 X 34.8 X 13mm 316L stainless steel housings
- IP65/67/68/69K protection rating



CONTRINEX C23 Series Plastic

- · Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- IO-Link v1.0 on select models
- · Ecolab approved for use in hygienic areas



- IP67 protection rating















Enhanced 50 Series Plastic

- · Diffuse, through-beam, and polarized reflective sensing styles
- AC/DC output choices include robust 3A SPDT relays





- · Sensing distances up to 500ft
- 73 X 48.5 X 46mm fiberglassreinforced plastic housings
- IP67 protection rating



LEUZE 28 Series Plastic

- · Diffuse, polarized retroreflective, and through-beam sensing styles
- 31.8 X 15 X 57.7mm ABS plastic housings

- Sensing distances up to 10m
- IP67 protection rating





Organic RW Series Plastic

- Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- IP65/67 protection rating



- · Sensing distances up to 3m
- Compact 14.4 X 8.1 X 28.1mm ABS plastic housings





٧ް

wenglor OPT Series Plastic

- Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing styles
- IO-Link v1.1 compatibility







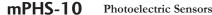
- Sensing distances up to 20m
- 50 X 50 X 20mm plastic housings
- IP67/68 protection rating







IO-Link



VAUTOMATION DIRECT

1 - 8 0 0 - 6 3 3 - 0 4 0 5

Photoelectric Sensors www.automationdirect.com/photoelectric

Small Space Rectangular Sensors

Autonics BTF Series Ultra-Thin Flat Plastic

- Diffuse with background suppression and through-beam sensing styles
- Ultra-thin, flat housings are only 3.7mm thick (4.6mm including lens)





- · Sensing distances up to 1m
- PBT thermoplastic housings
- · IP67 protection rating









Autonics BTS Series Ultra-Slim Plastic

- · Diffuse, retroreflective, and throughbeam sensing styles
- Ultra-slim, narrow housings are only 7.2mm wide





- Sensing distances up to 1m
- PBT thermoplastic housings
- IP67 protection rating







Autonics BPS Series Compact Flat Plastic

- Through-beam sensing style
- · Low-profile, flat housings are only 7.5mm thick (8.1mm including lens)





- · Sensing distances up to 3m
- PBT thermoplastic housings
- IP67 protection rating









Orsense F16 Series Die-Cast Zinc

- Diffuse, diffuse with background suppression, polarized retroreflective, and through-beam sensing
- Low-profile 8 X 8 X 44mm housings
- Sensing distances up to 2.2m
- Die-cast zinc housings
- IP67 protection rating







Clear Object Detection Sensors

Clear-object photoelectric sensors detect presence when a clear object interrupts light rebounding off a fixed reflector (sold separately) or when used as part of a through-beam pair. These sensors use infrared visible, red light, or UV light sources and offer detection ranges up to 4.2 meters.

▼AUTOMATIONDIRECT FFRL Series Stainless Steel

- 18mm diameter
- Retroreflective for transparent objects
- 316L stainless steel housing







- 1m sensing distance
- IP68/69K protection rating





CONTRINEX **C23 Series Plastic**

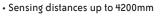
- · Retroreflective for transparent objects
- IO-Link V 1.0 on PNP models
- · Models with UV light offer easy sensitivity adjustment











- 20 X 10 X 30mm ABS plastic housings
- Ecolab approved for use in hygienic areas
- IP67 protection rating





IO-Link

▼AUTOMATIONDIRECT QM Series Plastic

- Retroreflective for transparent objects
- 21 X 12.8 X 31.2mm PA66 plastic housings



- Sensing distances up to 4m
- IP67 protection rating





- Retroreflective for transparent objects
- IO-Link v1.1 compatibility
- · Potentiometer sensitivity adjustment







www.automationdirect.com/photoelectric

- Sensing distances up to 2.6m
- 50 X 50 X 20mm plastic housings
- IP67/68 protection rating





IO-Link





Clear Object Detection Sensors (continued)

Enhanced 50 Series Plastic

- Retroreflective for transparent objects
- NPN/PNP, solid-state relay, or SPDT EM relay outputs
- · AC or DC operating voltages



- 45in sensing distance
- 73 X 79.5 X 46mm fiberglassreinforced plastic housings
- IP67 protection rating



Distance Measuring Sensors

Short-range, high-precision laser sensors measure down to an 8 micrometer resolution using CMOS technology; long-range models use time of flight (measuring transit time of the reflected light) to measure distances up to

100 meters. Employing Class 1 or 2 lasers (depending on model), these DC-powered units support analog outputs of 4-20 mA or 0-10 VDC.



OPT Short Range CMOS Series

- Diffuse laser distance sensing style with CMOS technology
- Class 1 and 2 red lasers
- High resolution down to 8µm
- 4-20 mA or 0-10 VDC output













· Sensing distances up to 350mm

• IP67 protection rating

• 50 X 50 X 20mm polycarbonate housings

• High response times down to 660 µs





OPT Long Range Transit Time Series

- Diffuse and retro-reflective (transit time) sensing styles
- · Measured value independent of material, color, and brightness
- Class 1 and 2 red lasers













• Sensing distances up to 100m

polycarbonate housings

• IP68 protection rating

• Analog or switching output options

• 50 X 50 X 20mm or 81 X 55 X 30mm





1 - 8 0 0 - 6 3 3 - 0 4 0 5

High Precision Distance Sensing for Less!









wenglor OPT25 Laser Triangulation Series

Wenglor OPT25 series laser sensors offer our best-in-class distance sensing for ranges within 1 meter. They are IO-Link v1.1 compatible, employ a Class 1 red or Class 2 blue laser, and use triangulation to measure distances with extreme accuracy.

Powered by Wenglor's proprietary TripleA technology, the Wenglor OPT25 series ensures precise distance readings regardless of object material, color, or shape, even in demanding environments with fluctuating light and temperature conditions. They can even detect flat objects directly in front of a background.

Blue laser light models provide enhanced performance for red-hot or organic surfaces, polished metals, shiny plastics, or dark paints. The shorter wavelength blue laser light does not penetrate as deeply into the surface, resulting in high accuracy. Sensor configuration varies by model, with options including a teach-in button, an easy-to-read OLED display, or the intuitive Wenglor weCon Bluetooth app.

- Diffuse laser distance sensing style
- Red Class 1 lasers or blue Class 2 lasers for dark and shiny object detection
- Only 0.08% linearity deviation from the measuring range
- Teach-in, OLED, IO-Link, or Bluetooth configuration options (depending on model)
- Up to 2500/s measuring rate
- Reproducibility up to 0.8µm
- 4-20 mA or dual PNP/NPN output options
- · Sensing distances up to 1000 mm
- 50 X 50 X 20mm or 71 X 63 X 30mm anodized aluminum housings
- IP67 protection rating

















FREE Wenglor weCon App

The Wenglor weCon app enables mobile settings and data transfer for distance sensors. Users can effortlessly configure sensors via the free Bluetooth app.



- · Easily adjust Wenglor distance sensors directly from a smartphone or tablet
- Monitor sensor readings, diagnostics, and device status in real-time
- Available for Android and iOS









Discrete Distance Sensors

Discrete distance sensors are diffuse laser sensors that detect presence via reflected laser light from the target object and use time-of-light distance calculations for

background suppression. These sensors operate consistently regardless of the object's material, color, or brightness.



wenglor OPT Short Range CMOS Series

- Diffuse laser distance sensing style with CMOS technology
- Measured value independent of material, color, and brightness





- 60-660mm sensing distance
- 50 X 50 X 20mm polycarbonate housings
- IP68 protection rating





wenglor OPT Transit Time Series

- Diffuse and retro-reflective (transit time) sensing style
- Measured value independent of material, color, and brightness





- · Sensing distances up to 3m
- 50 X 50 X 20mm polycarbonate or plastic housings
- IP68 protection rating







wenglor OPT Compact Transit Time Series

- Diffuse and retro-reflective (transit time) sensing style
- Measured value independent of material, color, and brightness





- Sensing distances up to 1m
- 32 X 22 X 12mm polycarbonate or plastic housings
- IP67 protection rating





Dark and Shiny Object Detection Sensors

Dark and shiny object detection photoelectric sensors detect presence of objects that other sensors fail to detect

or erroneously detect multiple times because they are either very dark or shiny.



wenglor OPT Series Blue Light

- Diffuse with background suppression sensing style
- · Potentiometer sensitivity adjustment
- IO-Link V1.1







- Sensing distances up to 400mm
- 50 X 20 X 50mm or 32 X 12 X 16mm plastic housings
- IP67/68 protection rating





IO-Link

Fiber Optic Sensors

Fiber optic sensors provide a remotely mounted electronics and optics package with fiber optic extensions to the sensing area, perfect for extremely tight locations, or where even low power electronics are not allowed.

Glass and cuttable plastic fiber optic cables are also available (sold separately), with sensing distances up to

▼AUTOMATIONDIRECT® **DFT Series Plastic**

- Sensing distances and styles are dependent on the optical fiber
- · Compact 10 X 31 X 60mm PAT housings





- · Teach-in sensitivity adjustment
- Bar graph signal-strength indicator
- IP64 protection rating





▼AUTOMATIONDIRECT **DFP Series Plastic**

- Sensing distances and styles are dependent on the optical fiber
- Compact 10 X 31 X 60mm PBT housings





- · Potentiometer sensitivity adjustment
- IP64 protection rating







VAUTOMATIONDIRECT[§]

Fiber Optic Sensors (continued)

Ň

wenglor OPT Series Plastic

- Diffuse and through-beam sensing styles
- Sensing distances are dependent on the optical fiber
- Plastic housings in various sizes







- · IO-Link available on select units
- Teach-in sensitivity adjustment
- Bar graph signal-strength indicator
- IP65 or IP50 protection rating



IO-Link



Micro Detectors SSF Series 18mm Tubular Plastic

- 18mm diameter
- Sensing distances and styles are dependent on the optical fiber





- Teach-in sensitivity adjustment
- PBT housings
- IP67 protection rating



Color Sensors

Color sensors are used for colored object detection, quality control, and print accuracy applications. The Wenglor OPT2023 color sensor can evaluate up to

three colors simultaneously and has a variety of mounting accessories.



wenglor OPT2023 Color Series

- · Capable of evaluating up to three colors simultaneously
- · White light source
- Three switching outputs





- 40mm sensing distance
- 50 X 50 X 20mm plastic housing
- IP68 protection rating





Contrast Sensors

Contrast print mark sensors determine contrast by detecting the difference in the wavelength of reflected light from the mark and background. Contrast sensors

offer detection ranges up to 40mm, with quick-disconnect termination.



wenglor OPT Series Plastic

- 12 to 18mm sensing distance
- · White light emission
- Teach-in sensitivity adjustment





• 54.5 X 27 X 16mm plastic housings

• 42 X 28 X 15mm 316L stainless

steel housings

• IP69K protection rating

• IP67 protection rating





ODATALOGIC S8 Series Stainless Steel

- 6 to 12mm sensing distance
- RGB light emission
- · Teach-in sensitivity adjustment











ODATALOGIC \$8 Series Plastic

- 6 to 12mm sensing distance
- · RGB light emission
- Teach-in sensitivity adjustment





- 42 X 25 X 14mm ABS plastic housings
- IP67 protection rating





ODATALOGIC TL Series Metal

- 6 to 12mm sensing distance
- · RGB light emission
- Teach-in sensitivity adjustment





- 81.5 X 31.9 X 60.7mm aluminum housings
- IP67 protection rating









Fork Sensors

Fork sensors (also called slot sensors) use through-beam photoelectric technology to detect objects passing through the slot. The rugged one-piece housing keeps the emitter and receiver in alignment, and a convenient, single-cable

connection is provided. A variety of light sources are available for specialty sensing applications, with sensing distances up to 250mm.

▼AUTOMATIONDIRECT® PS Series Metal

- U-frame models in fork openings from 5 to 220mm
- L-frame models in fork openings from 60 to 160mm
- · Visible red, infrared, and laser light options
- Up to 5 kHz switching frequency







- · Light-on/Dark-on selectable
- Rugged one-piece die-cast zinc
- · Models for clear object and liquid detection
- · IP67 protection rating



▼AUTOMATIONDIRECT® PS Series Stainless Steel

- U-frame models in 50 or 60mm fork openings
- · Visible red light
- · Complementary Light-on/Dark-on outputs





- 3 kHz switching frequency
- Rugged one-piece stainless steel housings
- IP69K protection rating



di-SOric OGU Series Metal

- U-frame models in fork openings from 5 to 250mm
- Standard, high-resolution, power, or speed sensor modes
- · Visible red and infrared light options
- Up to 14 kHz switching frequency







- · Light-on/Dark-on selectable
- · Sensitivity adjustment via potentiometer or IO-Link
- · IO-Link v1.1 compatibility
- 10 to 30 VDC operating voltage
- IP67 protection rating





Light Grids

Light grids are multi-beam arrays of photoeyes used to detect presence anywhere within the controlled height of the sensor array. These sensors are perfect for detecting various sized and shaped objects at random positions as they pass through the (2D) target area (not for use as safety light curtains).

Detection Light Grids





Micro Detectors CX0 Series Light Grids

Micro Detectors CXO series detection light grids are easy to install and feature a fast response time with high accuracy and repeatability.

- · Operating distance up to 6m
- 160 and 320mm detection heights
- 5 or 10mm resolution
- 16.8-30 VDC operating voltage
- Discrete PNP output
- Teach-in sensitivity adjustment
- Painted aluminum housings
- IP67 protection rating



Micro Detectors BX Series Light Grids

Micro Detectors BX80 series detection light grids feature rugged thermoplastic housings and are designed for industrial applications such as conveyor belt monitoring, packaging machines, and access control.

- Operating distance up to 2m
- 70mm detection height
- · 6mm resolution
- 12-24 VDC operating voltage
- Discrete NPN or PNP output
- · Adjustable sensitivity
- · Plastic housings
- IP67 protection rating



www.automationdirect.com/photoelectric



ProSense FLG Series Light Grids

ProSense FLG series light grids offer a cost-effective solution for object detection, featuring a simple setup with no programming required. They have no dead zone on the full detection height and are suitable for a variety of applications, such as material handling, counting, and warehousing.

- 0.1-10m operating distance
- · 220 to 1580mm detection heights
- 20 or 40mm resolution
- 24 VDC operating voltage
- · Discrete NPN or PNP output
- Rugged aluminum housings
- IP67 protection rating







VAUTOMATIONDIRECT ■

Detection Light Grids (cont.)



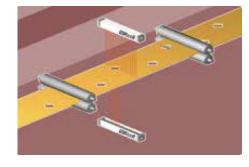


ReeR Micron Series Light Grids with Push-Pull Complementary Outputs

ReeR Micron series light grids with push-pull complementary outputs provide a simple way to determine whether or not an object is present in the light grid's field of view. The outputs can be used to activate or stop a machine, or trigger an alarm.

- 0-10m operating distance
- 120 to 740mm detection heights
- 10 or 30mm resolution
- 24 VDC operating voltage

- Software configurable
- Rugged anodized aluminum housings
- IP65/67 protection rating



Quality Control: verification of presence/absence/position of holes

Measuring Light Grids





Micro Detectors

Micro Detectors CX2 Series Light Grids

The blanking function of the CX2 series provides flexible configuration options by allowing the height of the active optic window to be adapted to an application by eliminating pairs of beams.

- Operating distance up to 6m
- Detection height up to 960mm
- \bullet 5 or 10mm resolution
- Parallel beams and floating crossbeams with variable amplitude
- 16.8-30 VDC operating voltage
- PNP NO/NC configurable output
- 4-20 mA or 0-10 VDC output
- Painted aluminum housings
- IP67 protection rating

Measuring Light Grids (cont.)

∠REER

ReeR Micron Series Light Grids with Analog Outputs

ReeR Micron series light grids with analog outputs are compact sensing devices for precision measurement and positioning tasks. They are configurable via easy-to-use software that offers an extensive parameter selection.

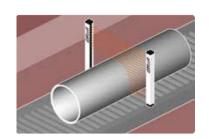
- 0-10m operating distance
- 270 to 1490mm detection heights
- 10 or 30mm resolution
- 24 VDC operating voltage
- Two 4-20 mA outputs

- Two discrete push-pull outputs
- · Software configurable
- Rugged anodized aluminum housings
- IP65/67 protection rating









Measurement and Identification



Configurator Software



www.automationdirect.com/photoelectric



ReeR Micron Series Light Grids with IO-Link Compatibility

ReeR Micron series IO-Link compatible light grids are versatile industrial devices for precise object detection, measurement, and identification. They offer flexible setup with protected heights and beam spacings to suit a variety of applications.

- 0-10m operating distance
- 270 to 1490mm detection heights
- 10 or 30mm resolution
- 24 VDC operating voltage
- Output via IO-Link v1.1.2Configurable via IO-Link
- Rugged anodized aluminum housings
- IP65/67 protection rating