Leuze electronic

HVS
PRECONISATEUR DE SOLUTIONS DEPUIS 1985

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the sensor people

318B/328 Series –
Universal M18 photoelectric sensors for standard detection tasks

PRODUCT INFORMATION

Amazingly simple – simply amazing.

Our new 318B family of photoelectric sensors is proof that affordable and functional do not have to be a contradiction in terms. A robust plastic shell, a reliable detection behavior and intelligent fastening technology for M18 hole mounting make these sensors the efficient alternative in many application areas and the first choice for standard detection tasks.

For higher mounting requirements the 328 series with the same technical data is also available with stainless steel sleeves.

Best service

- Convenient **online product selector** for easy comparison and selection of the right product using technical features
- **Global production concept** guarantees worldwide availability of products, even on short notice
- **Global price guarantee** increases planning security in worldwide markets
- **Competent customer service center** and **technical support** aid in the selection of suitable products and the right implementation

Very simple operation

- Large **brightVision®** light spot without blind area for easy alignment and reliable detection of even the smallest objects
- Bright **yellow/green LED status display** for easy function state check
- **A²LS** active **suppression of extraneous light** for reliable detection and low susceptibility to ambient and stray light
- Integrated **teach button** for easy and convenient sensitivity adjustment

Flexible integration options

- Sturdy, warp-resistant, **plastic housing** in **IP 67** for sensor use even in rough industrial environments
- Two **complementary switching outputs** for either light or dark switching operation
- Patented, flexible ***omni-mount*** fastening concept for simple alignment and many intelligent mounting devices
- **Large temperature range** from -40 to +60 °C makes possible a broad range of applications

With optional angular optics, mounting is possible on both sides since angular optics do not protrude over Ø M18.

Reliable detection behavior

in standard applications.

Throughbeam photoelectric sensor – L318B / L328

Light source	highly visible red light
Operating range limit	0…15.0 m (axial optics) 0…8.0 m (90° optics)
Switching frequency	500 Hz

- High performance reserve enables reliable detection even in extreme situations and reduces the risk of a system standstill
- Simple alignment by means of optimized beam geometry
- Simple detection of flat objects
- 328 series: Metal threads for high strength mounting

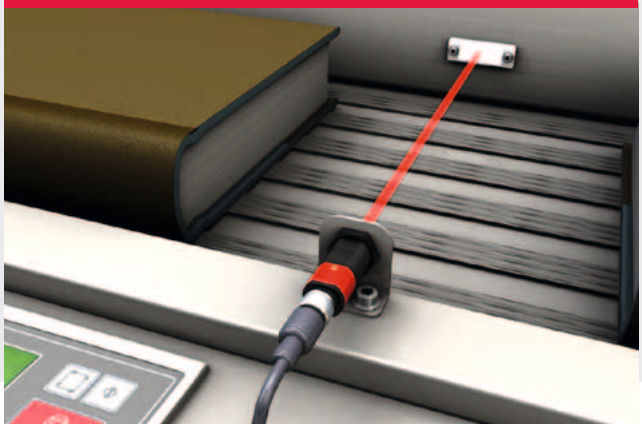
Retro-reflective photoelectric sensor – PRK318B / PRK328

Light source	highly visible red light
Operating range limit	0.02…6.0 m (axial optics) 0.02…5.0 m (90° optics)
Switching frequency	500 Hz

- High performance reserve enables reliable detection even in extreme situations and reduces the risk of a system standstill
- Reliable suppression of direct reflections by means of a polarization filter for dependable detection, even under difficult light conditions
- 328 series: Metal thread for high strength mounting and sensitivity adjustment with potentiometer

Wood plate detection

Object detection



Compact housing – extensive performance.

Energetic scanner – ET318B / 328

Light source	highly visible red light
Scanning range limit	0…1.0 m (90°) ET318B.W 0.01…0.45 m
Switching frequency	500 Hz

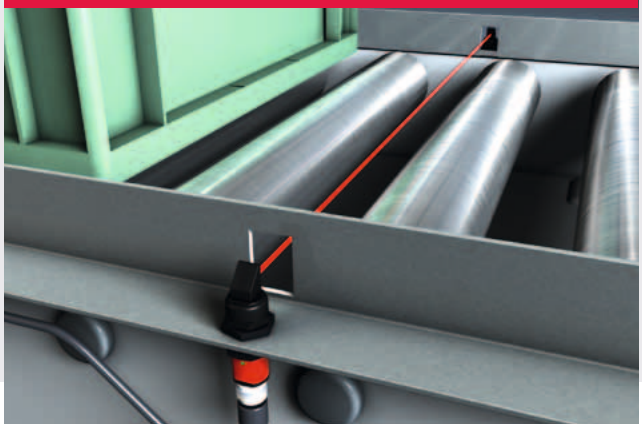
- Particularly homogeneous light spot for reliable detection of small and large objects
- Simple alignment by means of optimized beam geometry
- Optimum adaptation with teach button and 2 levels (object or background)
- 328 series: Metal threads for high strength mounting

Fading scanner – FT318B / 328

Light source	highly visible red light
Scanning range limit	0…0.25 m (90°) FT318B.W 0.01…0.12 m
Switching frequency	500 Hz

- Reliable detection of various objects in defined environment
- High sensitivity for precise switching behavior
- Optimum adaptation with teach button and 2 levels (object or background)
- 328 series: Metal threads for high strength mounting

Object detection on the transport system



Detection of glossy or greasy objects

omni-mount

Clever mounting and simple alignment all in one.

The patented ***omni-mount*** fastening system included in the scope of delivery convinces users with its simple and ingenious possibilities for fine adjustment. Flush mounting, e.g., in the belts of a conveyor system, is no problem with the 318B series. An additional model with 90° light beam gate extends the possible uses into even difficult installation situations.

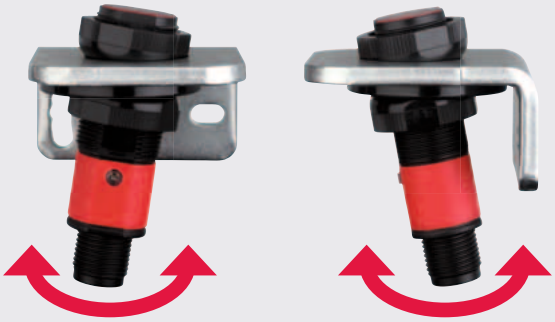
Standard mounting

Simple and reproducible M18 hole mounting by means of the two mounting nuts, which are positioned flatly one on top of the other.
(left: axial light beam gate; right: 90° light beam gate)

BTD18M.5 (mounting bracket)

Simple fine adjustment with *omni-mount*

Turn the mounting nuts for a simple sensor alignment option at no additional cost. The special crowned shape of the nuts, together with the leveling washer included in the delivery contents, makes possible form-fitting fastening of the sensors at various alignment angles.



BTD21M (mounting bracket)
BT318B-OM (mounting nuts + spacer disc)

Embedded mounting

With the BT 318P-LS mounting bracket, simple and flush mounting, e.g., in the belts of a conveyor system, is possible. The brackets can be used both for fastening the axial sensors as well as for sensors with 90° optics.

BTD18M.5 (mounting bracket)
BT318P-LS (mounting clamp)

Switching Sensors
Optical Sensors
Ultrasonic Sensors
Fiber Optic Sensors
Inductive Switches
Forked Sensors
Light Curtains
Special Sensors

Measuring Sensors
Distance Sensors
Sensors for Positioning
3D Sensors
Light Curtains
Forked Sensors

Products for Safety at Work
Optoelectronic Safety Sensors
Safe Locking Devices and Switches
Safe Control Components
Machine Safety Services

Identification
Bar Code Identification
2D-Code Identification
RF Identification

Data Transmission/ Control Components
MA Modular Interfacing Units
Data Transmission
Safe Control Components

Industrial Image Processing
Light-Section Sensors
Smart Camera

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