

the **sensor** people

Series 318B –
Universal photoelectric sensors for
standard detection tasks



Amazingly simple – **simply** amazing.

The new 318B series is the economical alternative when you simply need a photoelectric sensor.

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.

And the patented **omni-mount process** included in the delivery contents convinces with its both simple and ingenious method of 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.





Throughbeam photoelectric sensor – L318B

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



Retro-reflective photoelectric sensor – PRK318B

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



omni-mount

Clever mounting and simple alignment all in one.



Standard mounting

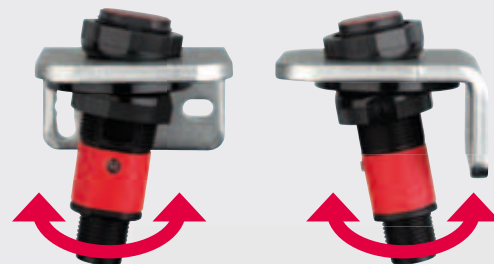
Simple and reproducible M18 hole mounting by means of the two mounting nuts, which are positioned flatly one on top of the other.

(left: axial light beam gate; right: 90° light beam gate)



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.



Flush 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.



One device – **many** advantages.

Temperature range

Large operating temperature range from -40 to +60 °C.

Housing

Robust plastic housing in IP 67 for use in rough industrial environments.

Interface

Two complementary switching outputs for light and dark switching operation.



Alignment

Simple alignment through brightly visible brightVision® light spot.

LED indicator

Bright yellow/green status displays for operation, signal and performance reserve.

Optics

A²LS active ambient light suppression for lower susceptibility to ambient and stray light.

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

Attachment

Patented, flexible *omni-mount* fastening concept for simple alignment.

Optoelectronic Sensors

Cubic series
Cylindrical Sensors, Mini Sensors, Fiber Optic Amplifiers
Measuring Sensors
Special Sensors
Light Curtains
Forked Sensors
Double Sheet Monitoring, Splice Detection
Accessories

Identification Systems

Data Transmission Systems

Distance Measurement

Bar Code Readers
RF-IDent-Systems
Modular Interfacing Units
Industrial Image Processing Systems
Optical Data Transmission Systems
Optical Distance Measurement/Positioning
Hand-Held Readers

Safety Sensors

Safety Systems

Safety Services

Safety Laser Scanner
Safety Light Curtains
Transceivers and Multiple Light Beam Safety Devices
Single Light Beam Safety Devices
AS-i-Safety Product Range
Safety Sensor Technology for PROFIBUS DP
Safety Switches and Safety Locking Devices
Safety Relays and Safety Interfaces
Sensor Accessories and Signal Devices
Safety Engineering Software
Machine Safety Services

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