L 318 B



- 10 30 V JUUUUU DC 500 Hz
- Throughbeam photoelectric sensor with • clearly visible red light and high performance reserve
- Axial and 90° light beam gate for flexible integration
- Fast alignment through brightVision®
- Simple fine adjustment via omni-mount
- Embedded mounting option
- Robust plastic housing acc. to IP 67 for industrial application
- Deactivation output for testing and interlinking of the sensor
- Complementary outputs for light/dark • switching

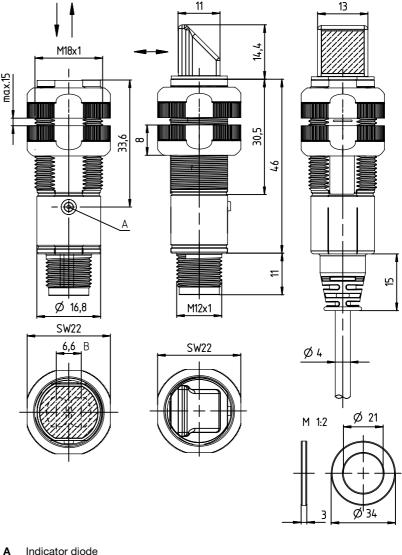


Accessories:

- (available separately)
- Mounting systems (BT 318, BT 318-ARH)
- M12 connectors (KD ...)
- Ready-made cables (K-D ...)

Throughbeam photoelectric sensors

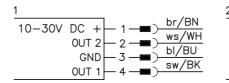
Dimensioned drawing



- Indicator diode
- в Optical axis

Electrical connection

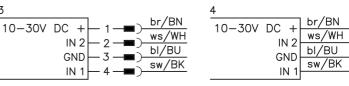
Receiver



br/BN 10-30V DC + ws/WH 0UT 2 bI/BU GND sw/BK 0UT 1

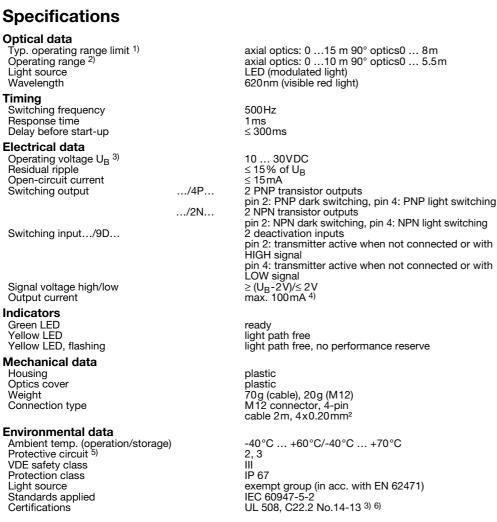
Transmitter

3



Leuze electronic

L 318 B



Typ. operating range limit: max. attainable range without performance reserve 1)

Operating range: recommended range with performance reserve 2)

For UL applications: for use in class 2 circuits according to NEC only 3)

Sum of the output currents for both outputs, 50mA when ambient temperatures > 40°C 2=polarity reversal protection, 3=short circuit protection for all outputs 4)

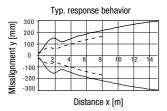
5) 6) These proximity switches shall be used with UL Listed Cable assemblies rated 30V, 0.5A min,

in the field installation, or equivalent (categories: CYJV/CYJV7 or PVVA/PVVA7)

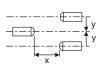
Axial optics:		
0	10.0	15.0
90° optics:		
0	5.5	8.0
Operating range [m]		

Typ. operating range limit [m]

Diagrams







Remarks

Operate in accordance with intended use!

- ✤ This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
 Only use the product in accor-
- dance with the intended use.

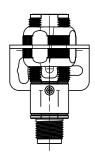
L 318 B

Throughbeam photoelectric sensors

Mounting options

Standard mounting

Alignment of the supplied mounting nuts with flat side towards the mounting sheet. Mounting bracket BT D18M.5 is recommended for standard mounting.



omni-mount

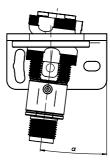
4 mm*)

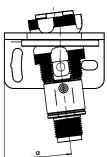
omni-mount makes fine adjustment of the sensors possible in a very simple and economical manner. For this type of mounting, the mounting nuts are used with the round side towards the mounting device. The mounting sheet must have a bore hole of approx. 21 mm in diameter. The special molding of the mounting nuts together with the spacer disc included in the delivery contents allows form-locking fastening of the sensors at different adjustment angles. The maximum possible tilt angle depends on the thickness of the mounting sheet. Mounting bracket BT D21M is recommended for *omni-mount*.

Mounting	sheet thickness
2 mm	

Max. adjustment angle +/- 5° +/- 8°

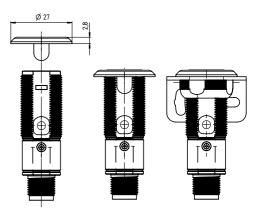
*) Corresponds to the thickness of the BT D21M mounting bracket





Embedded mounting

Embedded mounting, e.g. into a materials handling belt, is possible via the BT 318P-LS mounting support. The supports can be used either for fastening the axial sensors or for sensors with 90° optics.



Leuze electronic

L 318 B

Order guide

The sensors listed here are preferred types; current information at www.leuze.com.

		types, earone mornation at www.iouzo.com.		
			Designation	Part no.
Se	nsors with axial optics			
Transmitter	With M12 connector	2 deactivation inputs (pin 4 = IN1, pin 2 = IN2)	LS 318B/9D-M12	50116853
Trans	With cable, 2m	2 deactivation inputs (pin 4 = IN1, pin 2 = IN2)	LS 318B/9D	50116852
		Pin 4: PNP light switching, pin 2: PNP dark switching	LE 318B/4P-M12	50116847
iver	With M12 connector Pin 4: N	Pin 4: NPN light switching, pin 2: NPN dark switching	LE 318B/2N-M12	50116845
Receiver		Pin 4: PNP light switching, pin 2: PNP dark switching	LE 318B/4P	50116846
	With cable, 2m	Pin 4: NPN light switching, pin 2: NPN dark switching	LE 318B/2N	50116844
Se	nsors with 90° angular optics			
Fransmitter	With M12 connector	2 deactivation inputs (pin 4 = IN1, pin 2 = IN2)	LS 318B.W/9D-M12	50116855
Trans	With cable, 2m	2 deactivation inputs (pin 4 = IN1, pin 2 = IN2)	LS 318B.W/9D	50116854
		Pin 4: PNP light switching, pin 2: PNP dark switching	LE 318B.W/4P-M12	50116851
Receiver	With M12 connector	Pin 4: NPN light switching, pin 2: NPN dark switching	LE 318B.W/2N-M12	50116849
lece	With askin Ore	Pin 4: PNP light switching, pin 2: PNP dark switching	LE 318B.W/4P	50116850
	With cable, 2m	Pin 4: NPN light switching, pin 2: NPN dark switching	LE 318B.W/2N	50116848
Ac	cessories for optimum fastening Support for embedded mounting Mounting bracket for standard mounting Mounting bracket for omni-mount	Collective packaging with 10 supports	BT 318P-LS BT D18M.5 BT D21M	50117258 50113548 50117257

Part number code

Operating p	·
LS	Throughbeam photoelectric sensor, transmitter
LE	Throughbeam photoelectric sensor, receiver
Series	
318B	Series 318B
Optics desig N/A	n Axial optics
.W	90° angular optics
4	PNP transistor output, light switching
-	utput/function /OUT10UT2 (OUT1 = pin 4, OUT2 = pin 2) or switching input/function /IN1IN2 (IN1 = pin 4, IN2 = pin 2)
Р	PNP transistor output, dark switching
2	NPN transistor output, light switching
N	NDN transister systems dark switching
	NPN transistor output, dark switching
9	Input for transmitter deactivation (deactivation with HIGH signal)
9 D	
9 D X	Input for transmitter deactivation (deactivation with HIGH signal)
x	Input for transmitter deactivation (deactivation with HIGH signal) Input for transmitter deactivation (deactivation with LOW signal) Pin not used
x	Input for transmitter deactivation (deactivation with HIGH signal) Input for transmitter deactivation (deactivation with LOW signal)
x	Input for transmitter deactivation (deactivation with HIGH signal) Input for transmitter deactivation (deactivation with LOW signal) Pin not used as of functions are possible via two-digit code!
- X Combinatior	Input for transmitter deactivation (deactivation with HIGH signal) Input for transmitter deactivation (deactivation with LOW signal) Pin not used as of functions are possible via two-digit code!

L E 3 1 8 B . W / 4 P - M 1 2