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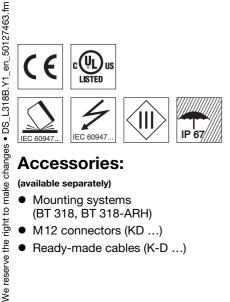
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Throughbeam photoelectric sensors

Dimensioned drawing

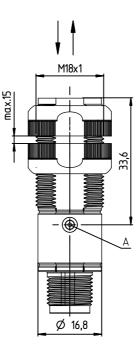


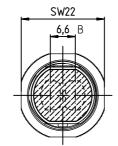
- Fast alignment through brightVision®
- Simple fine adjustment via omni-mount
- Embedded mounting option
- Robust plastic housing acc. to IP 67 for • industrial application
- Deactivation output for testing and interlinking of the sensor
- ۲ Complementary outputs for light/dark switching

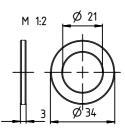


Accessories:

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



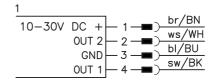




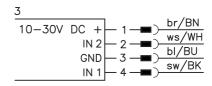
- Indicator diode Α
- в Optical axis

Electrical connection

Receiver



Transmitter



▲ Leuze electronic

L318B.Y1

9.5 14.2

Specifications		Tables
Optical data Typ. operating range limit ¹⁾ Operating range ²⁾ Light source Wavelength	0 14.2m 0 9.5m LED (modulated light) 620nm (visible red light)	0 Operating range [m] Typ. operating range limit [m]
Timing Switching frequency Response time Delay before start-up	500Hz 1 ms ≤ 300ms	
Electrical data Operating voltage U _B ³⁾ Residual ripple Open-circuit current Switching output Switching input	10 30VDC ≤ 15% of U _B ≤ 15mA 2 PNP transistor outputs pin 2: PNP dark switching, pin 4: PNP light switching 2 deactivation inputs pin 2: transmitter active when not connected or with HIGH signal pin 4: transmitter active when not connected or with LOW signal	
Signal voltage high/low Output current	$\geq (U_B - 2V) \leq 2V$ max. 100mA ⁴)	
Indicators Green LED Yellow LED Yellow LED, flashing	ready light path free light path free, no function reserve	
Mechanical data Housing Optics cover Weight Connection type	plastic plastic 20g M12 connector, 4-pin	
Environmental data Ambient temp. (operation/storage) Protective circuit ⁵) VDE safety class Degree of protection Light source Standards applied Certifications 1) Typ. operating range limit: max. attainable range wit 2) Operating range: recommended range with function 3) Eget LL applications: for use in glass 2 diruth ages	n reserve	

- For UL applications: for use in class 2 circuits according to NEC only
- 4) Sum of the output currents for both outputs, 50mA when ambient temperatures > 40 °C

5) 2=polarity reversal protection, 3=short circuit protection for all outputs
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)

Remarks

Operate in accordance with intended use!

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

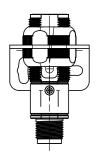
L318B.Y1

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

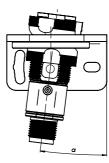
4 mm*)

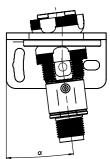
omni-mount makes fine adjustment of the sensors possible in a very simple and economical manner. For this type of mounting, the mounting nuts are used with the round side towards the mounting device. The mounting sheet must have a bore hole of approx. 21 mm in diameter. The special molding of the mounting 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°

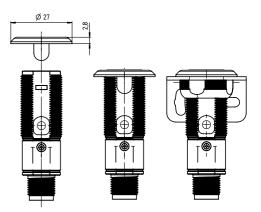
*) Corresponds to the thickness of the BT D21M mounting bracket





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

L318B.Y1

Order guide

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

	· · · · · · · · · · · · · · · · · · ·		Designation	Part no.		
Sensors with axial optics						
Transmitter	With M12 connector	With integrated diaphragm, 2 deactivation inputs (pin $4 = IN1$, pin $2 = IN2$)	LS318B.Y1	50126605		
Receiver	With M12 connector	Pin 4: PNP light switching, pin 2: PNP dark switching	LE318B/4P-M12	50116847		
Set	With M12 connector	Set consisting of: transmitter LS318B.Y1 (50126605) and receiver LE318B/4P-M12 (50116847)	Set L318B.Y1	50128862		
Accessorie	es for optimum fastening					
	Support for embedded mounting	Collective packaging with 10 supports	BT 318P-LS	50117258		
Accessories	Mounting bracket for standard mounting	g	BT D18M.5	50113548		
	Mounting bracket for omni-mount		BT D21M	50117257		