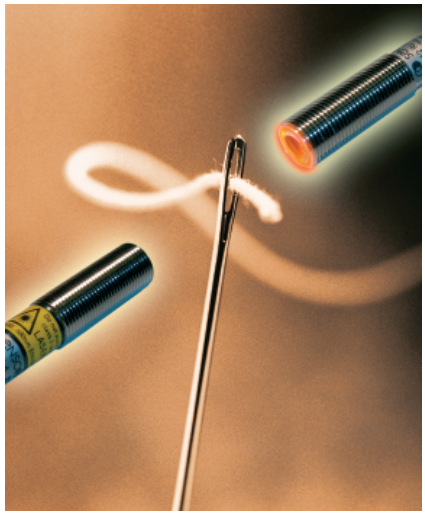
SENSOPART

HIGH-PRECISION



FS/FE 12 RL
Laser through-beam sensor

For the needle in the haystack

We now have a new compact solution for the detection of small objects at large distances: Thanks to its small light spot, the **FS/FE 12 RL** laser through-beam sensor is perfect for the detection of even very small parts with a size from only 0.2 mm!

The adjustment of the systems proves to be very simple: Together with the visible red light, the large output signal indicator LED behind the receiver lens facilitates the precise alignment of transmitter and receiver.

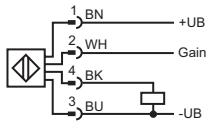
The sensitivity of the output may be adjusted in three degrees by means of a control input. With a maximum switching frequency of 10 kHz this sensor is particularly suitable for the detection of very fast processes.

Features

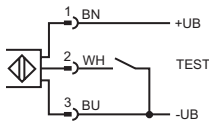
- *Detection of very small parts from 0.2 mm*
- *Scanning range 5000 mm*
- *Switching frequency 10 kHz*
- *Output PNP N.O.*
- *Small size*
- *Red light 650 nm Laser class 2*
- *Control line for the setting of three sensitivity degrees*
- *Test input*

Technical data	FS 12 RL/FE 12 RL
Optical data	
Scanning range	5000 mm
Used light	Laser red 650 nm, pulsed
Laser protection class	2
Electrical data	
Operating voltage	10 ... 30 VDC integrated polarity reversal protection
Switching frequency	10 kHz
Connection	Plug M12 4-pin
Current consumption (no load)	≤ 30 mA
Signal output	PNP N.O.
Max. output current	100 mA with short-circuit protection
Test input transmitter	Yes
Function indicator	LED yellow - unbroken light beam (receiver)
Power-on delay	≤ 300 ms
Protection class	⧈
Mechanical data	
Casing material	Brass, nickelized
Protection standard	IP67
Ambient temperature range	-20 ... +65 °C
Plug connection	M12 x 1
Accessory	
Cable	L4-2m-G-PUR (Art. 902-50805)

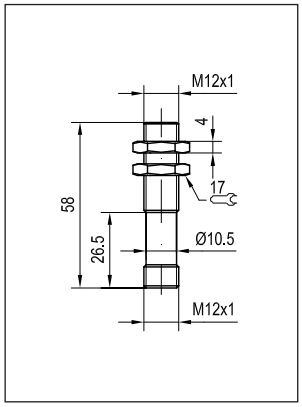
Wiring diagram receiver



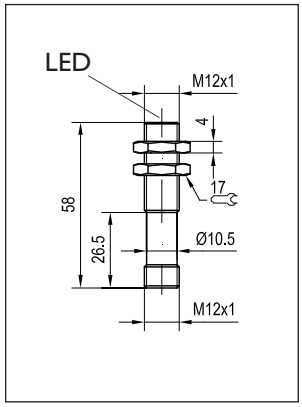
Wiring diagram transmitter



Dimensional drawing transmitter



Dimensional drawing receiver



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