

FS/FE 18 RL

Through-beam laser sensor



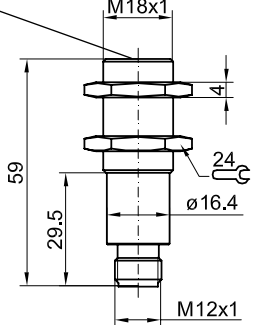
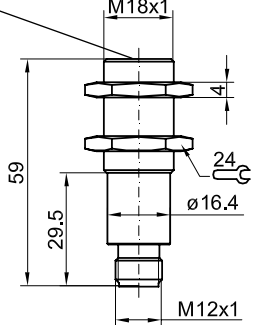
PRODUCT HIGHLIGHTS

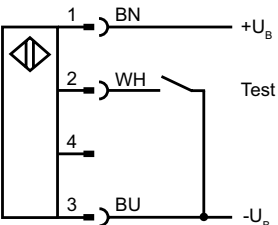
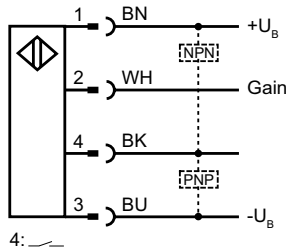
- Operating range: 50 m
- Small housings
- Red light laser, 650 nm
- Control line for setting of 3 sensitivity levels
- Test input

Optical data		Functions	
Operating range	0 ... 50 m	Indicator LED, yellow	Switching output indicator
Type of light	Laser, pulsed, red, 650 nm	Sensitivity adjustment	Via control line
Laser Class (IEC 60825-1)	1		
Electrical data		Mechanical data	
Operating voltage, +U _B	10 ... 30V DC	Dimensions (plug device)	M18x1 x 59 mm
No-load current, I ₀	≤ 30 mA	Enclosure rating	IP 67 ²
Output current, I _e	≤ 100 mA	Material, housing	Brass, nickel-plated
Protective circuits	Reverse-polarity protection, U _B / short-circuit protection (Q)	Type of connection	See selection table
Protection Class	2	Ambient temperature: operation	-20 ... +60 °C
Power On Delay	≤ 300 ms	Ambient temperature: storage	-20 ... +80 °C
Switching output, Q	PNP/NPN (see selection table)	Weight (transmitter / receiver)	70 g
Output function	N.O.		
Switching frequency, f (ti/tp 1:1)	≤ 10000 Hz		
Response time	50 µs		
Control input, Test	Test input (transmitter) -U _B : transmitter = off +U _B or Open: transmitter = on		
Control input, Gain	Open: medium sensitivity – medium distance ¹ -U _B : high sensitivity – high distance ¹ +U _B : low sensitivity – low distance		

¹ Change in Gain setting is only effective after renewed switch on / switch off ²With connected IP 67 plug

Transmitter / receiver	Switching output	Type of connection	Part number	Article number
Receiver	PNP	Plug, M12x1, 4-pin	FE 18 RL-PS-L4	580-51400
Receiver	NPN	Plug, M12x1, 4-pin	FE 18 RL-NS-L4	580-51399
Transmitter	–	Plug, M12x1, 4-pin	FS 18 RL-L4	580-51398

Plug connection (transmitter)	Plug connection (receiver)
Laser exit aperture  M18x1 59 29.5 ø16.4 M12x1 24 153-00351	Yellow LED: ON = light path free  M18x1 59 29.5 ø16.4 M12x1 24 153-00351

Connection, 4-pin (transmitter)	Connection, 4-pin (receiver)
 1 BN +U_B 2 WH Test 4 3 BU -U_B 154-00171	 1 BN +U_B 2 WH Gain 4 BK 3 BU -U_B 4: — 154-00265

Accessories	
Connection cables	www.sensopart.com/en/accessories
Brackets	