

PRODUCT through-beam sensor
retro-reflective sensor
diffuse reflection sensor

DESIGN 18 M18x1

- ✓ **robust metal housing**
- ✓ **plastic lens**
- ✓ **LED display for status and stability**
- ✓ **integrated amplifier**
- ✓ **short-circuit and reverse polarity protection**
- ✓ **high sampling frequency and sensing ranges**
- ✓ **laser class 1**
- ✓ **connection with M12-connector**

fig. 1

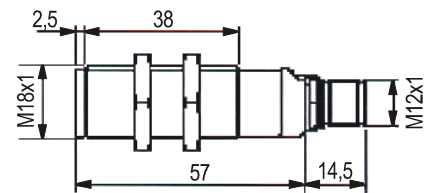
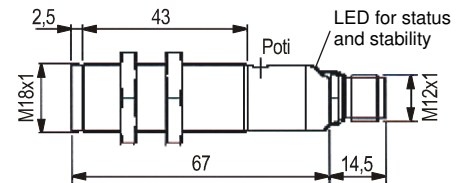
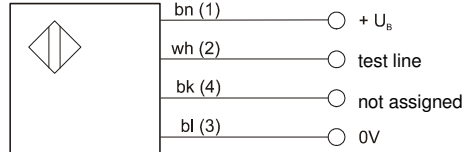


fig. 2



electric connection:

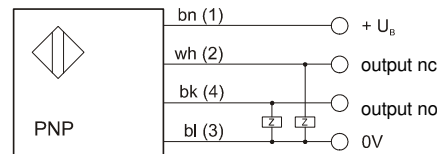
transmitter:



bn=brown, wh=white, bk=black, bl= blue
terminal markings of the cable socket in clamps

Connecting the test line with +U_B turns off the transmitter!

receiver, retro-reflective sensor, diffuse reflection sensor:



bn=brown, wh=white, bk=black, bl= blue
terminal markings of the cable socket in clamps

technical data and article-no.

	PS180024	PE180424	PR180424	PT180424
sensor version		through-beam sensor	retro-reflective sensor	dif. reflection sensor
sensing range S _n		0 ... 60m	0.1 ... 16m (depending on reflector)	0 ... 350mm
operating voltage U _B		10 ... 30V DC		
switching output	----		pnp, antivalent (no/nc)	
current consumption w/o load	≤ 30mA		≤ 35mA	
max. switching current	----		100mA	
max. sampling frequency	----		1.5kHz	
sensitivity adjustment	----		potentiometer 270°	
display	LED green: U _B existent		LED yellow: output switched LED green: status stable	
transmitting element		laser-red light, 650nm, laser class 1		
design / housing material		threaded sleeve M18 x 1 / chrome-plated brass		
lens material		PMMA		
dimensional drawing	fig. 1		fig. 2	
system of protection (EN 60529)		IP 67		
ambient temperature		-10 ... +50 °C		
storage temperature		-25 ... +70 °C		
electric connection		M12-connector, 4-pin		
matching cable socket		2m: VK200321 / 5m: VK500321 / 10m: VKA00321		

Warning: Never use these devices in applications where the safety of a person depends on their functionality!

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