

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

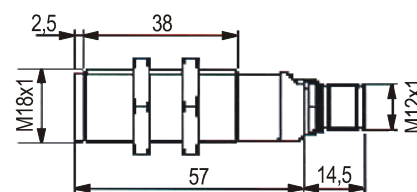
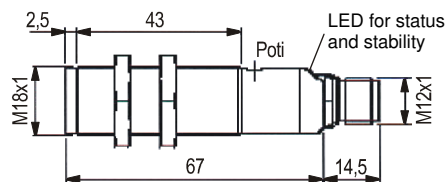
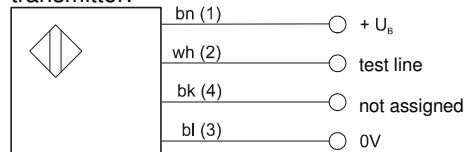


fig. 2



electric connection:

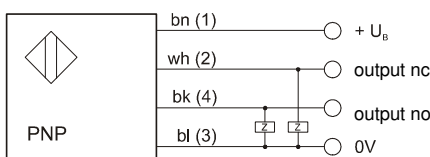
transmitter:



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	----		npn, 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!