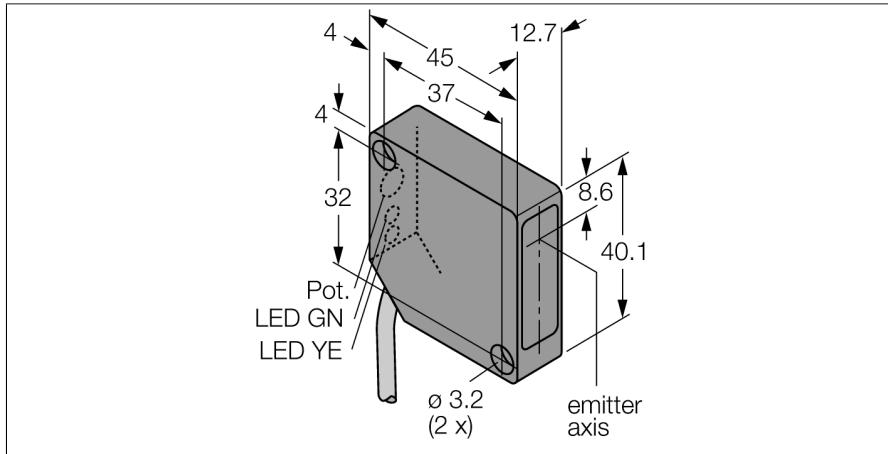


Photoelectric Sensor

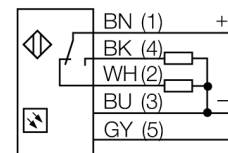
Retroreflective Laser Sensor

PD45VP6LLP



- Laser sensors with high excess gain
- Range 10.6 m
- BRT-36X40BM reflector included in delivery
- Connection cable, 2 m
- Sensitivity adjusted via potentiometer
- Light and dark operation

Wiring Diagram

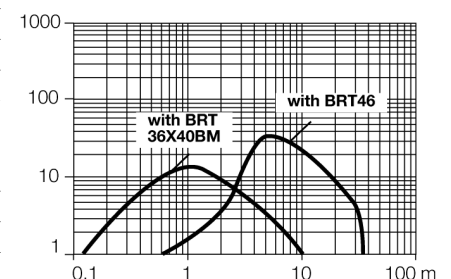


Functional principle

Retro-reflective sensors incorporate emitter and receiver in a single compact housing. The light beam of the emitter is directed towards a reflector which returns the light back to the receiver. An object is detected when it interrupts this beam. Retro-reflective sensors incorporate some of the advantages of opposed mode sensors (good contrast and high excess gain). Further it is merely required to install and wire a single device. A smaller sensing range and susceptibility of devices without polarisation filter can be of disadvantage when shiny objects have to be detected.

Excess gain curve

Excess gain in relation to the distance



Type	PD45VP6LLP
ID	3058620
Optical data	
Function	Retroreflective Sensor
Operating mode	Polarized
Light type	Red polarized
Wavelength	650 nm
Laser class	▲ 2
Range	200...10600 mm
Electrical data	
Operating voltage U_a	10...30 VDC
No-load current I_o	≤ 20 mA
Output function	Complementary contact, PNP
Switching frequency	2.5 kHz
Readiness delay	≤ 1 s
Readiness delay	≤ 1000 ms
Response time typical	< 0.2 ms
Overcurrent release	> 220 mA
Setting option	Potentiometer
Mechanical data	
Design	Rectangular, PicoDot
Housing material	Plastic, Thermoplastic material
Lens	plastic, Acrylic
Electrical connection	Cable, 2 m, PVC
Number of cores	5
Core cross-section	0.34 mm ²
Ambient temperature	-10...+45 °C
Protection class	IP54
Special features	
Power-on indication	LED, Green
Switching state	LED, Yellow
Error indication	LED, green, Flashing
Excess gain indication	LED

Tests/approvals

Approvals

CE