

VS3AN5XLPQ5

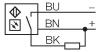
Retroreflective Sensor with Polarizing Filter Miniature Sensor

Technical data			
Туре	VS3AN5XLPQ5		
ID no.	3070075		
Optical data			
Function	Retroreflective Sensor		
Operating mode	Polarized (coaxial)		
Reflector included in delivery	no		
Light type	Red polarized		
Wavelength	680 nm		
Range	0250 mm		
Electrical data			
Operating voltage	1030 VDC		
Residual ripple	< 10 % U _{ss}		
DC rated operational current	≤ 50 mA		
No-load current	≤ 25 mA		
Short-circuit protection	yes		
Reverse polarity protection	yes		
Output function	NO contact, light operation, NPN		
Switching frequency	≤ 500 Hz		
Readiness delay	≤ 150 ms		
Response time typical	< 1 ms		
Design	Rectangular		
Housing material	Plastic, Thermoplastic material		
Lens	glass, Glass		
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC		
Number of cores	4		
Ambient temperature	-20+55 °C		
Protection class	IP67		
Excess gain indication	LED		
Tests/approvals			

Features

- Coaxial optics, no blind zone
- ■Operating voltage: 10...30 VDC
- ■NPN switching output, light operation

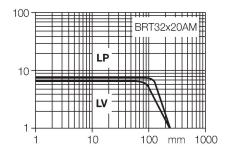
Wiring diagram



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. Devices with polarisation filter should be used for detection of shiny targets.

Excess gain curve Excess gain in relation to the distance





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Accessories

Dimension drawing	Туре	ID no.	
	BRT-32X20AM	3058982	Rectangular reflector, reflection

