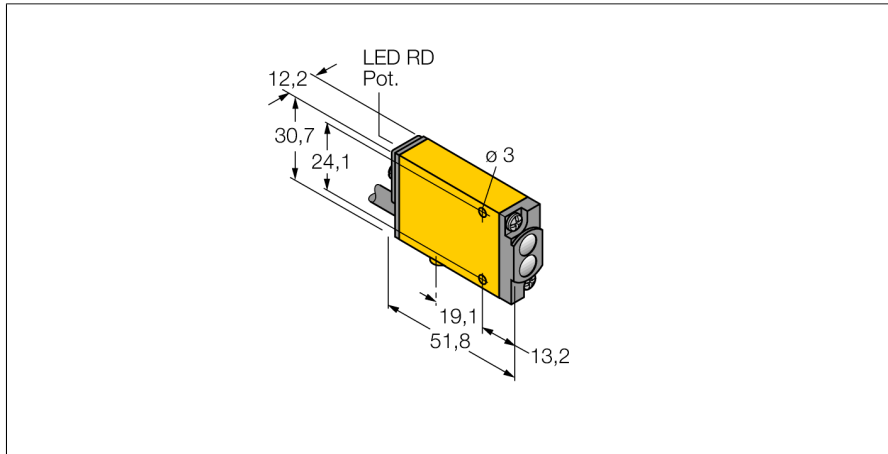


Photoelectric Sensor

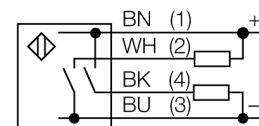
Photoelectric Sensor for Plastic Fibers

SM2A312FPH



- Cable, PVC, 2 m
- Protection class IP67
- Sensitivity adjusted via potentiometer
- Alignment indicator
- Operating voltage: 24...240 VAC
- Switching output, bipolar
- Light/dark operation

Wiring Diagram



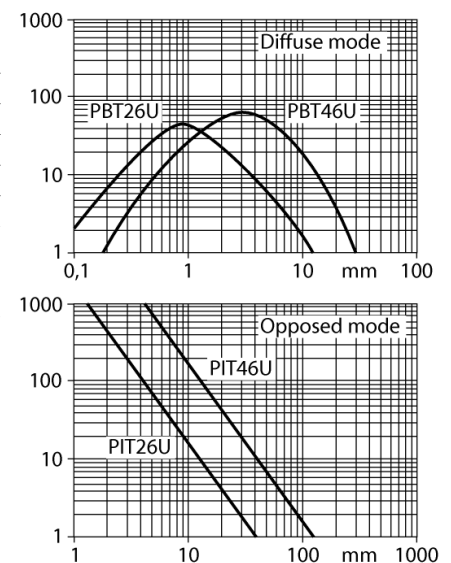
Type	SM2A312FPH
ID	3030472
Optical data	
Function	Fiber optic sensor
Operating mode	Plastic fiber
Fiber-optic type	plastic
Light type	Red
Wavelength	650 nm
Electrical data	
Operating voltage U_s	24...240VAC
Mechanical data	
Design	Rectangular, Mini Beam
Housing material	Plastic, PBT, Yellow
Lens	plastic, Acrylic
Electrical connection	Cable
Ambient temperature	-20...+70 °C
Protection class	IP67
Tests/approvals	
Approvals	CE, cURus, CSA

Functional principle

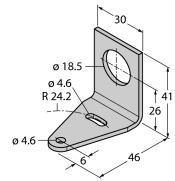
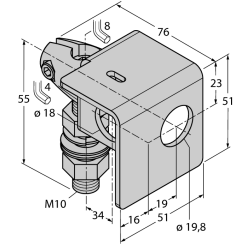
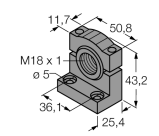
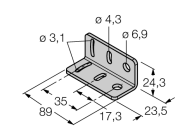
Glass or plastic fibers are the optimum choice for high-temperature applications and limited spaces. Optical fibers transfer the light from the sensor to a remote object. Individual fibers are used for opposed sensing mode, whereas bifurcated fibers are suited for diffuse sensing mode.

Excess gain curve

Excess gain in relation to distance



Accessories

Type code	Ident no.		Dimension drawing
SMB18A	3033200	Mounting bracket, rectangular, stainless steel, for sensors with 18 mm thread	
SMB18AFAM10	3012558	Mounting bracket, material VA 1.4401, for M10 x 1.5 thread, thread length 18 mm	
SMB18SF	3052519	Mounting bracket, PBT black, for sensors with 18 mm thread, rotatable	
SMB312B	3025519	Mounting bracket, stainless steel, for MINI-BEAM NAMUR	
SMB3018SC	3053952	Mounting bracket, PTB black, for sensors with 18 mm thread	