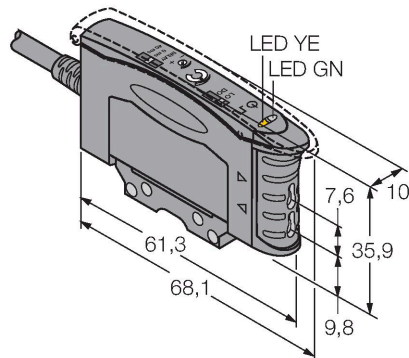


D10AFP

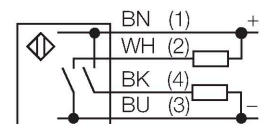
Photoelectric Sensor – Photoelectric Sensor for Plastic Fibers



Features

- Cable 2 m
- Light/dark operation
- Red visible light
- Operating voltage 10...30 VDC
- Switch-off delay 40 ms, selectable
- Max. switching frequency 1 kHz
- Sensitivity adjusted via 12-turn potentiometer

Wiring diagram



Technical data

Type	D10AFP
ID	3072808
Optical data	
Function	Fiber optic sensor
Operating mode	Plastic fiber
Fiber-optic type	plastic
Light type	Red
Wavelength	660 nm
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
DC rated operational current	≤ 100 mA
No-load current	≤ 25 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	1 kHz
Readiness delay	≤ 100 ms
Response time typical	< 0.5 ms
Setting option	Potentiometer
Mechanical data	
Design	Rectangular, D10A
Dimensions	68.1 x 10 x 35.9 mm
Housing material	Plastic, Thermoplastic material, Black
Electrical connection	Cable, 2 m, PVC
Number of cores	4
Core cross-section	0.34 mm ²

Functional principle

Glass or fibre optic sensors are the optimum choice for high temperature or space restricted applications. Fibre optics transfer the light from the sensor to a remote object. Individual fibre optics are used for opposed mode sensing, whereas bifurcated fibre optics are suited for diffuse mode operation.

Technical data

Ambient temperature	-20...+55 °C
Relative humidity	0...90 %
Protection class	IP50
Special features	keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	LED, yellow, flashing
Tests/approvals	
Approvals	CE, cURus

Accessories

SMBR55F01	3067104	SMBR55FRA	3058809
Mounting panel, PBT, black, for R55F series, wall mounting		Mounting bracket, 19-ga. stainless steel, for D10, DF-G1 and R55F series, lateral wall mounting	
DIN-35-70	3026604	DIN-35-105	3030470
DIN rail, width 35 mm, length 70 mm		DIN rail, width 35 mm, length 105 mm	
DIN-35-140	3026605		
DIN rail, width 35 mm, length 140 mm			

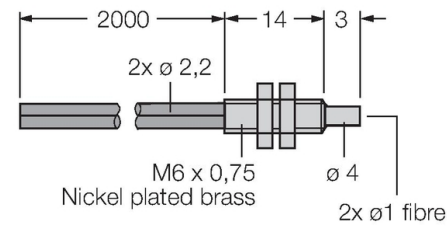
Accessories

Dimension drawing	Type	ID	
	PIT46U	3026034	Plastic fiber-optic sensor, operating mode: Opposed mode, threaded sleeve M3 x 0.5 mm, field wireable wire without end tip, polyethylene sheath, ambient temperatures -30 °C...+70 °C

Technical drawing of the PIT46U fiber-optic sensor. The drawing shows a side view of the sensor with the following dimensions and specifications:

- Total length: 2000 mm
- Threaded sleeve length: 11 mm
- Final section length: 3 mm
- Outer diameter of sleeve: $\varnothing 2,2$
- Material: Nickel plated brass
- Mounting holes: M4 x 0,7 and M2,5 x 0,45
- Fiber diameter: $\varnothing 1$ fibre

Dimension drawing	Type	ID	
	PBT46U	3025967	



Plastic fiber-optic sensor, operating mode: Diffuse mode, threaded sleeve M3 x 0.75 mm, field wireable wire without end tip, polyethylene sheath, ambient temperatures -30 °C...+70 °C