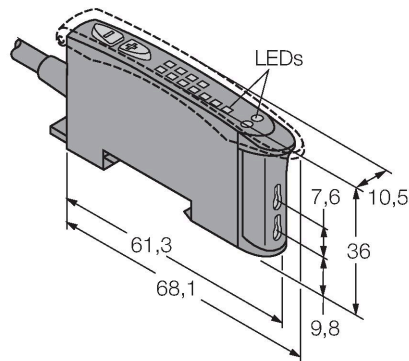


D10BFP

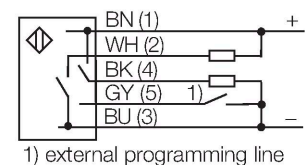
Photoelectric Sensor – Photoelectric Sensor for Plastic Fibers



Features

- Cable 2 m
- 8-segment LED display
- Response time, adjustable
- Light/dark operation
- Teach programming
- Visible red light
- Operating voltage 10...30 VDC
- Selectable 30 ms switch-off delay

Wiring diagram



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

Type	D10BFP
ID no.	3072613
Optical data	
Function	Photoelectric sensor for plastic fibers
Fiber-optic type	plastic
Light type	Red
Wavelength	660 nm
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	< 10 % U _{ss}
No-load current	≤ 45 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	2.5 kHz
Readiness delay	≤ 200 ms
Response time typical	< 0.2 ms
Setting option	Push Button Remote Teach
Mechanical data	
Design	Rectangular, D10B
Dimensions	68.1 x 10.5 x 35.9 mm
Housing material	Plastic, Thermoplastic material
Electrical connection	Cable, 2 m, PVC
Number of cores	6
Core cross-section	0.34 mm ²
Ambient temperature	-20...+55 °C

Technical data

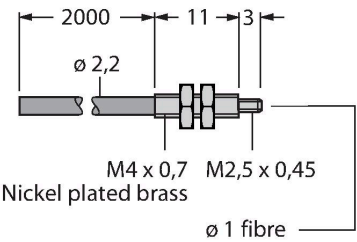
Relative humidity	0...90 %
Protection class	IP50
Special features	keep/defer Crosstalk protection
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	Bargraph, red
Tests/approvals	
Approvals	CE, cURus

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 no.	
	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



Dimension drawing	Type	ID no.	
	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

