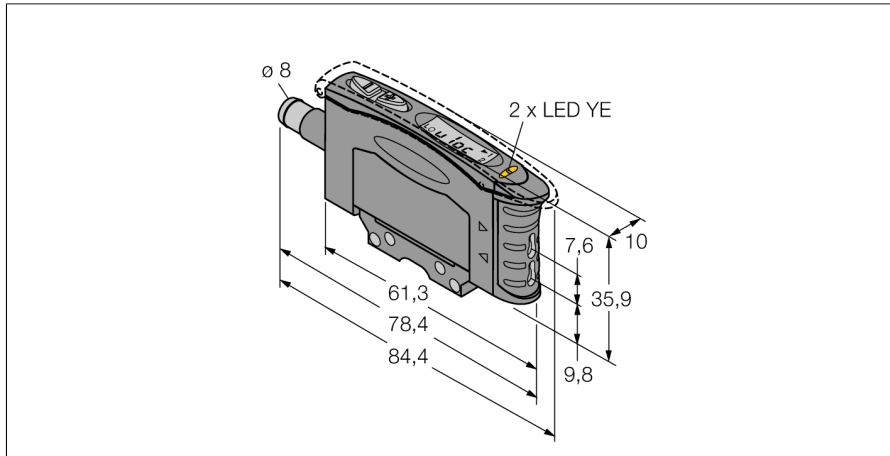


Photoelectric Sensor

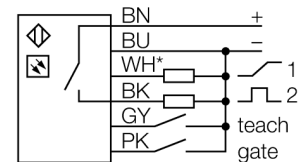
Photoelectric Sensor for Plastic Fibers

D10INFPGQ



- Male 8 mm, 6-pin, snap-lock
- Teaching function
- Response time, adjustable
- Green visible light
- Operating voltage 12...24 VDC
- Optical sensitivity, adjustable
- Switch-off delay (0...100 ms)

Wiring Diagram



* 0...10 VDC or 4...20 mA

Type	D10INFPGQ
ID	3064568

Optical data	
Function	Fiber optic sensor
Operating mode	Plastic fiber
Fiber-optic type	plastic
Light type	Green
Wavelength	525 nm

Electrical data	
Operating voltage U_s	12...24 VDC
Residual ripple	< 10 % U_s
No-load current I_0	≤ 65 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, NPN
Output 2	Analog current
Type of analog output	4...20 mA
Current output	4...20 mA
Switching frequency	10 kHz
Readiness delay	≤ 1000 ms
Response time typical	< 0.05 ms
Setting option	Push Button Remote Teach

Mechanical data	
Design	Rectangular, D10
Housing material	Plastic, Thermoplastic material
Electrical connection	Connector, M8 × 1, PVC
Number of cores	6
Ambient temperature	-10...+55 °C
Relative humidity	0...90%
Protection class	IP50

Functional principle

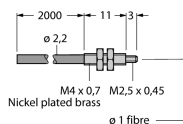
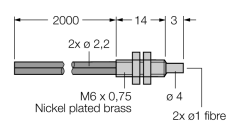
Glass or fibre optic sensors are the optimum choice for high temperature or space restricted applications. Fibre optics transfer the light from the sensor to a remote object. Individual fibre optics are used for opposed mode sensing, whereas bifurcated fibre optics are suited for diffuse mode operation.

Special features	keep/defer
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	Single Digital Display
Tests/approvals	
Approvals	CE, cURus

Accessories

Type code	Ident no.		Dimension drawing
SMBR55F01	3067104	Mounting panel, PBT, black, for R55F series, wall mounting	
SMBR55FRA	3058809	Mounting bracket, 19-ga. stainless steel, for D10, DF-G1 and R55F series, lateral wall mounting	
DIN-35-70	3026604	DIN rail, width 35 mm, length 70 mm	
DIN-35-105	3030470	DIN rail, width 35 mm, length 105 mm	
DIN-35-140	3026605	DIN rail, width 35 mm, length 140 mm	

Function accessories

Type code	Ident no.		Dimension drawing
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	 <p>Technical drawing of the PIT46U sensor showing dimensions: total length 2000 mm, fiber diameter $\phi 2,2$, threaded sleeve length 11 mm, and a 3 mm section. The drawing also indicates an M4 x 0,7 thread, M2,5 x 0,45 thread, Nickel plated brass material, and $\phi 1$ fibre.</p>
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	 <p>Technical drawing of the PBT46U sensor showing dimensions: total length 2000 mm, fiber diameter $2 \times \phi 2,2$, threaded sleeve length 14 mm, and a 3 mm section. The drawing also indicates an M6 x 0,75 thread, $\phi 4$ diameter, Nickel plated brass material, and $2 \times \phi 1$ fibre.</p>