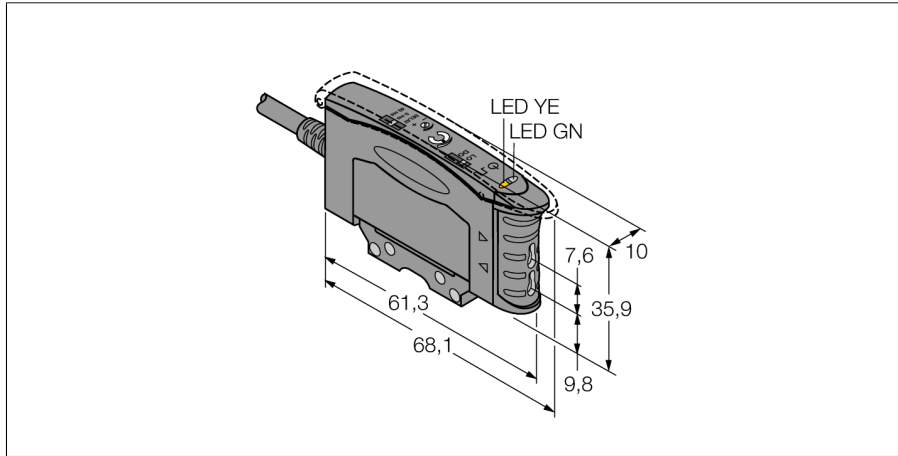
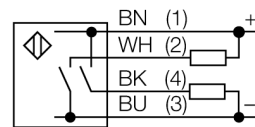


**Photoelectric sensor
base unit for plastic fibers
D10AFPGY**



- Cable 2 m
- Light/dark operation
- green visible light
- Operating voltage 10...30 VDC
- Switch-off delay 40 ms, selectable
- Max. switching frequency 2.5 kHz
- Sensitivity adjusted via 12-turn potentiometer

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.

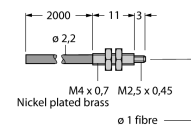
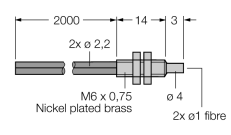
Type code	D10AFPGY
Ident no.	3073124
Operating mode	base unit for plastic fibers
Light type	green
Wavelength	525 nm
Ambient temperature	-10...+55 °C
Operating voltage	10...30VDC
Residual ripple	< 10 % U _s
DC rated operational current	≤ 100 mA
No-load current I ₀	≤ 25 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	2.5 kHz
Readiness delay	≤ 100 ms
Response time	< 0.2 ms
Design	rectangular, D10A
Dimensions	68.1 x 10 x 35.9 mm
Housing material	plastic, ABS, black
Connection	cable, PVC
Cable length	2 m
Cable cross section	4 x 0.34 mm ²
Protection class	IP50
Power-on indication	LED green
Switching state	LED yellow
Excess gain indication	LED yellow flashing

**Photoelectric sensor
base unit for plastic fibers
D10AFPGY**

Accessories

Type code	Ident no.	Description	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	Hutschiene, 35 mm Profil, Länge 105 mm	
DIN-35-140	3026605	DIN rail, width 35 mm, length 140 mm	

Function accessories

Type code	Ident no.	Description	Dimension drawing
PIT46U	3026034	plastic fibre-optic sensor, sensing mode: light screen, polyethylene cable; for ambient temperatures of -30 °C...+70 °C	 <p>Technical drawing of the PIT46U sensor showing dimensions: total length 2000 mm, cable diameter $\phi 2,2$, mounting hole diameter $\phi 11$, and mounting hole offset 3 mm. The mounting part is made of nickel plated brass with an M4 x 0,7 thread and an M2,5 x 0,45 thread. A single fibre with diameter $\phi 1$ is shown.</p>
PBT46U	3025967	plastic fibre-optic sensor, sensing mode: diffuse mode sensor, polyethylene cable; for ambient temperatures of -30 °C...+70 °C	 <p>Technical drawing of the PBT46U sensor showing dimensions: total length 2000 mm, cable diameter $2 \times \phi 2,2$, mounting hole diameter $\phi 14$, and mounting hole offset 3 mm. The mounting part is made of nickel plated brass with an M6 x 0,75 thread and an $\phi 4$ hole. Two fibres with diameter $\phi 1$ are shown.</p>