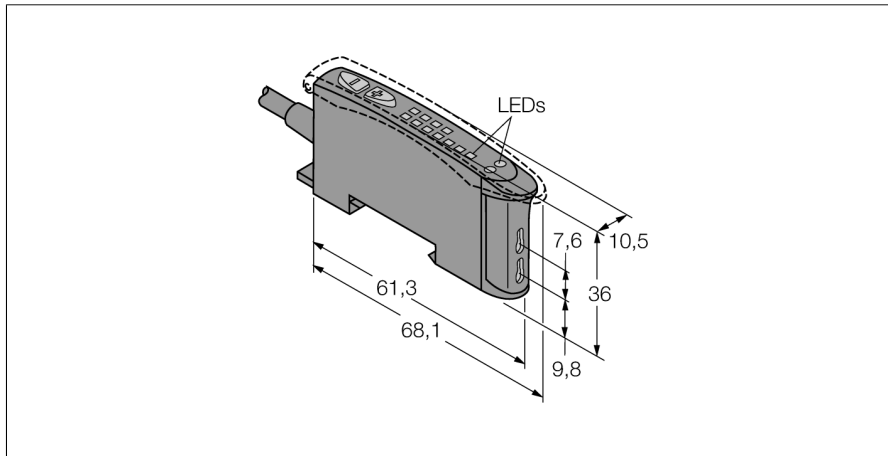
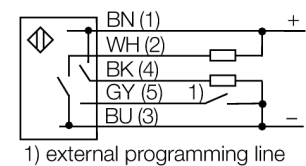


**Photoelectric sensor  
base unit for plastic fibers  
D10BFPG**



- Cable 2 m
- 8-segment LED display
- Response time, adjustable
- Light/dark operation
- teach programming
- visible green 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.

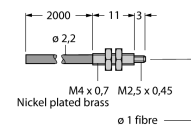
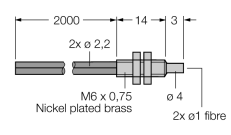
<b>Type code</b>	D10BFPG
Ident no.	3072616
<b>Operating mode</b>	base unit for plastic fibers
Light type	green
Wavelength	525 nm
Ambient temperature	-10...+55 °C
<b>Operating voltage</b>	10...30VDC
Residual ripple	< 10 % U <sub>s</sub>
No-load current I <sub>0</sub>	≤ 45 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	2.5 kHz
Readiness delay	≤ 200 ms
<b>Design</b>	rectangular, D10B
Dimensions	68.1 x 10.5 x 35.9 mm
Housing material	plastic, ABS
Connection	cable, PVC
Cable length	2 m
Cable cross section	5 x 0.34 mm <sup>2</sup>
Protection class	IP50
<b>Power-on indication</b>	LED green
Switching state	LED yellow
Excess gain indication	LED chain red

**Photoelectric sensor  
base unit for plastic fibers  
D10BFPG**

**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 <math>\phi 2,2</math>, mounting bracket length 11 mm, and mounting hole diameter 3 mm. The bracket 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 <math>\phi 1</math> 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 <math>2 \times \phi 2,2</math>, mounting bracket length 14 mm, and mounting hole diameter 3 mm. The bracket is made of nickel plated brass with an M6 x 0,75 thread and an <math>\phi 4</math> hole. Two fibres with diameter <math>\phi 1</math> are shown.</p>