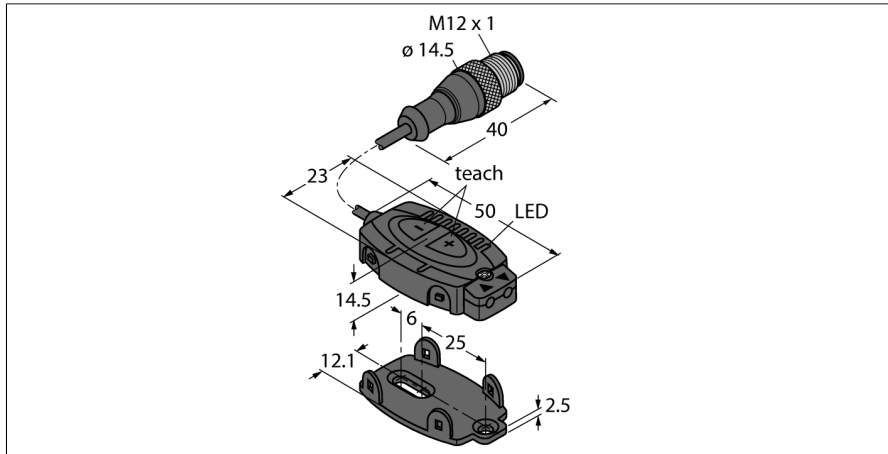


Photoelectric Sensor

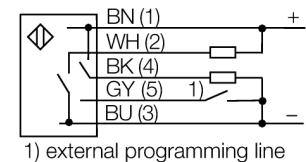
Photoelectric Sensor for Plastic Fibers

FI22FPQ5



- Cable with male end M12 × 1, 5-pin, 0.15 m
- Status LED, 8-segment
- Time delay, adjustable 0 ms/30 ms
- Status LED, 8-segment
- Range with optical fiber PIT46U: 260 mm
- Range with optical fiber PBT46U: 60 mm
- Operating voltage 10...30 VDC
- PNP/NPN switching output
- Light/dark operation

Wiring Diagram



Functional principle

Plastic fibre optics are often the optimum solution for limited space 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	FI22FPQ5
ID	3071367

Optical data	
Function	Photoelectric sensor for plastic fibers
Fiber-optic type	plastic
Light type	Red
Wavelength	660 nm

Electrical data	
Operating voltage U_s	10...30 VDC
Residual ripple	< 10 % U_s
DC rated operating current I_s	≤ 100 mA
Short-circuit protection	yes
Reverse polarity protection	yes
Output function	NO contact, PNP/NPN
Switching frequency	≤ 1000 Hz
Readiness delay	≤ 250 ms
Response time typical	< 0.5 ms
Setting option	Push Button

Mechanical data	
Design	Rectangular, FI22
Housing material	Plastic, Thermoplastic material, Black
Electrical connection	Cable with connector, M12 × 1, 0.15 m, PVC
Number of cores	5
Ambient temperature	-10...+55 °C
Protection class	IP67

Special features	
	keep/defer
	Wash down
Power-on indication	LED, Green
Switching state	LED, Yellow
Excess gain indication	Bargraph

Tests/approvals	
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Function accessories

Type code	Ident no.		Dimension drawing
PIT26U	3026079	Plastic fiber, sensing mode: Opposed mode, threaded bush M3 x 0.5 mm, preassembled wire without end tip, polyethylene jacket, ambient temperatures -30 °C...+70 °C	
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	
PIT66U	3039899	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	
PBT26U	3026080	Plastic fiber, sensing mode: Diffuse mode, threaded bush M3 x 0.75 mm, preassembled wire without end tip, polyethylene jacket, ambient temperatures -30 °C...+70 °C	
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	

Function accessories

Type code	Ident no.		Dimension drawing
PBT66U	3039982	Plastic fiber-optic sensor, operating mode: Diffuse mode, threaded sleeve M6 x 0.75 mm, pre-assembled wire without end tip, polyethylene sheath, ambient temperatures -30 °C... +70 °C	