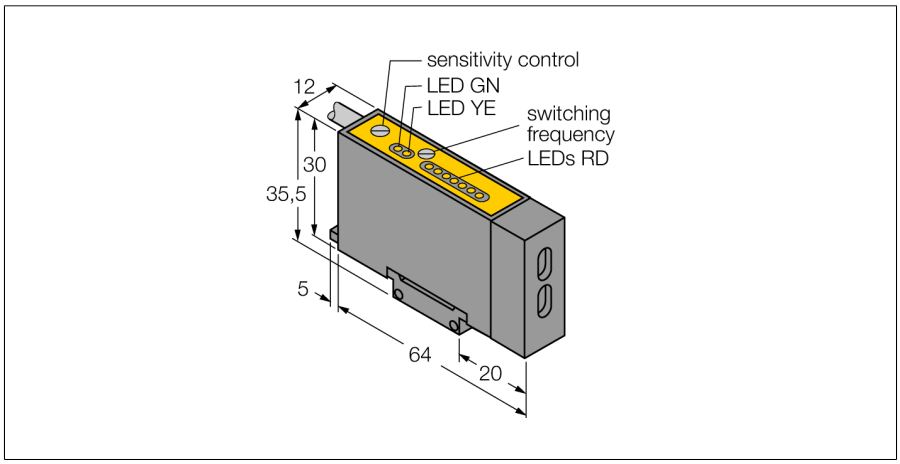
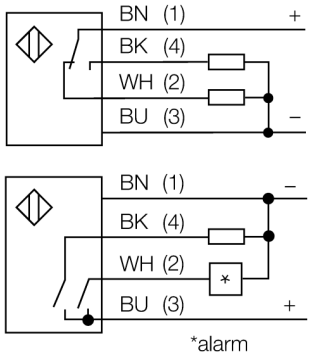
Photoelectric sensor
base unit for optical fibers
D12SP6FPY1



Type code	D12SP6FPY1
Ident no.	3035502
Operating mode	fibre optic sensor
Light type	red
Wavelength	680 nm
Ambient temperature	-20…+70 °C
Operating voltage	10…30VDC
No-load current I_0	≤ 25 mA
Output function	NO/NC , PNP
Switching frequency	10 kHz
Readiness delay	≤ 20 ms
Overcurrent release	> 200 mA
Design	rectangular, D12
Dimensions	64 x 12 x 30 mm
Housing material	plastic, ABS
Connection	cable
Cable length	2 m
Cable cross section	4 x 0.5 mm^2
Protection class	IP66
Power-on indication	LED green
Switching state	LED yellow
Error indication	LED red flashing
Excess gain indication	LED chain red

- **Base unit for plastic fibers**
- **7-segment LED chain for indication of excess gain**
- **connection cable, 2 m**
- **Operating voltage 10…30 VDC**
- **PNP transistor switching output**
- **Max. switching frequency 10 kHz**
- **Switch-off delay 20 ms**
- **Sensitivity adjustable via potentiometer**

Wiring diagram

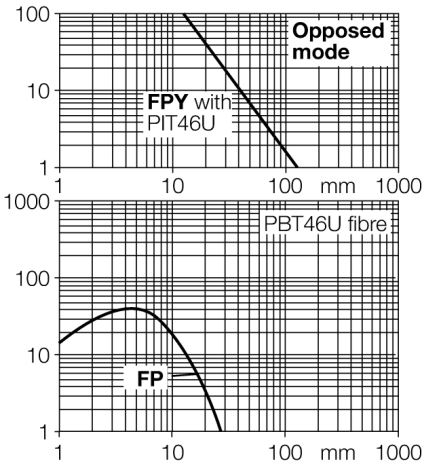


Functional principle

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 retro-reflective or diffuse mode operation.

Excess gain curve

Excess gain in relation to the distance



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