



# FX

## FX4/0P-0F

Photo.DIN rail,PNP-NO/NC,M8 plug,Fiber amp

PHOTOELECTRIC SENSORS FOR DIN-RAIL MOUNTING

## OVERVIEW

- Fibre-optic amplifier for DIN-rail mounting (DIN/EN 50022)
- Distance setting by means of teach in with additional manual fine adjustment (FX4)
- Distance setting by means of 12-turn potentiometer with illuminated scale (FX3)
- Adjustable pulse delay and stretching (FX4)
- High switching frequency: 1,5 kHz
- Ideal for stacking, thanks to 10 mm housing width
- Teach 1 (background), Teach 2 (target and background) (FX4)
- Large setting range of 20...200 mm

## TECHNICAL FEATURES

### Detection properties

Nominal sensing distance	Depending on optical fibres used
Operative range	
Thermal drift of Sr	
Sensitivity adjustment	Teach-in
Hysteresis	

## Application

Function Principle	Optic fiber amplifier
Notes	Delay ON/OFF One Shot
Optic position	Axial

## Outputs

Output type	PNP L/D Selectable
Output Function	L/D Selectable
Switching frequency	$\leq 1,5\text{Khz}$
Response time	$333\mu\text{s}$

## Electrical data

Operating Voltage	10...30VDC
No-Load supply current	$\leq 25\text{mA}$
Load current	$\leq 200\text{mA}$
Leakage current	$\leq 0,1\text{mA}$
Output voltage drop	$\leq 2\text{V}@I_{\text{load}}=200\text{mA}$
Max ripple content	$\leq 10\%$
LED indicators	Orange (output active); green (n.4 - received signal level); red (no received signal)
Time delay before availability	$\leq 200\text{ms}$
Short-circuit protection	

Reverse Polarity Protection	
Emission	LED Red (660nm)
Interference to external light	5.000lux (incandescent lamp), 10.000lux (sunlight)
Impulsive Overvoltage Protection	

#### Mechanical data

Dimensions	
Weight	
Housing Material	PBTP
Connections	M8 plug 4pin
Operating temperature	
Diameter/Dimension	Cubic

#### Test/Approvals

Approvals	CE
EMC compatibility	EN 60947-5-2
Shocks and vibrations	
Degree of protection	IP64

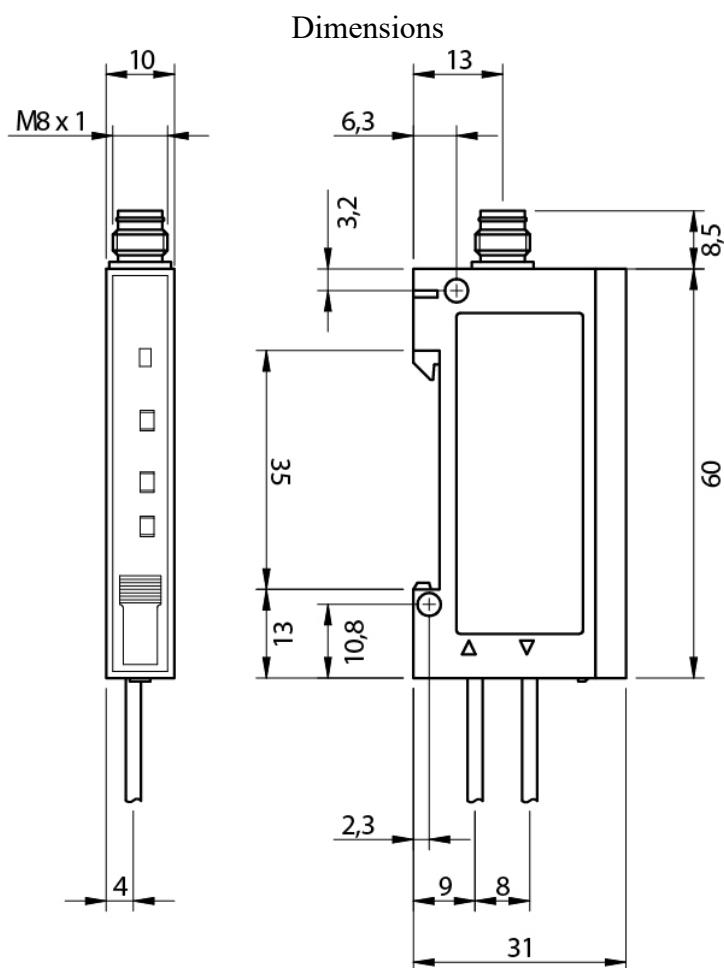
#### Accessories

Supplied Accessories	DIN mounting bracket
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## Generical Data

Dimensions	80 x 31,1 x 10 mm
Operating Temperature	- 25°C...+ 55°C (Without freeze)
Mechanical Protection	IP64

## OTHERS



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