

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	$\leq 1,5$ Khz
Response time	333µs
Electrical data	
Operating Voltage	1030VDC
No-Load supply current	$\leq 25 \text{mA}$
Load current	≤200mA
Leakage current	$\leq 0,1$ mA
Output voltage drop	≤2V@Iload=200mA
Max ripple content	≤10%
LED indicators	Orange (output active); green (n.4 - received signal level); red (no received signal)
Time delay before availability	≤200ms
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

Generical Data

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

OTHERS



Datasensing S.r.l.

Strada S.Caterina, 235 41122 Modena (MO) Tel. 059 420411 Fax 059 253973 E-mail **date of printing** 16/07/2025 18:04:12 info@datasensing.com