

MSF Series Fiber Photoelectric Sensors



Part Number Price

Sensing Distance

Differential Travel

Repeat Accuracy

Operating Voltage

Load Current

Voltage Drop

Output Type

Leakage Current

Switching Frequency

Temperature Range

Interference to External Light

Protection Degree (DIN 40050)

Temperature Drift

LED Indicators

Lens Materials

Weight

Housing Material

(tv) Time Delay Before Availability

Input Voltage Transients Protection

Input Power Polarity Reversal Protection

Output Power Short-Circuit Protection

No-load Supply Current

MSF-00-4A

MSF-00-4E

Model

Emission

Tolerance

Ripple

Sensina

Ranae

Optical fiber dependent

MSF Series Fiber Photoelectric Sensor Selection Chart

Output

State

N.O./N.C. selectable

Logic

NPN/PNP selectable

Specifications

Compact high-performance 18mm fiber photoelectric sensors

2 models available

- Multifunctional output NPN, PNP, N.O., and N.C.
- Logic connection possibilities
- Red light with visible spot • IP67 protection degree

Connection

2m (6.5') axial cable

M12 (12mm) connector

MSF-00-4A and MSF-00-4E

red (660nm)

≤10%

5%

10-30VDC

≤10%

25mA

≤100mA

≤10µA

1.2volt maximum at 100mA

(NPN, PNP, N.O., N.C.)

500Hz

200ms

≤30 VDC

Yes

Yes (switch autoresets after overload is removed)

-25° to +70° C (-13° to 158° F)

10% Sr

3,000 lux (incandescent lamp) 10,000 lux (sunlight)

IEC IP67

Red (output energized)

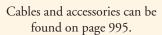
Polyamide (plastic), polycarbonate (cable exit)

Acrvlic

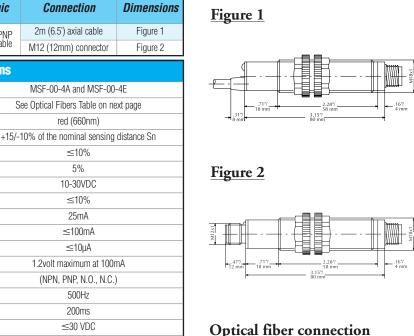
150g (5.29oz)

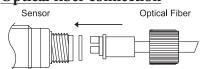
- LED status indicator

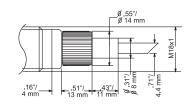
Cables and Accessories



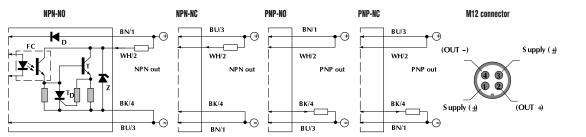
Dimensions







Wiring diagrams



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Sensors

SENSOR



MSF Series Fiber Photoelectric Sensors

Optical Fibers Table							
Part number	Price	Туре	Sensing Distance	Ø Fiber (core)	Free-cut	Fiber Length	Head Shape (mm)
OF-SC1		Diffuse reflection ¹	20mm	1mm	no	0.5m	M6x0.75
OF-SR1		Through-beam	40mm	1mm	no	0.5m	M4x0.5
OF-SR2		Through-beam	400mm	1mm	no	0.5m	M7x0.75 (with lens)
¹ Retro-reflective operating mode also possible Note: 0 in part number is numeric 0 (zero), not the letter "O"							

Cables and Accessories

Cables and accessories can be found on page 995.