



SU16 Series Fiber Optic Photoelectric Sensors

- DIN rail mountable
- Light on/dark on selectable
- Mutual interference protection
- Pigtail quick disconnect or cable versions



Fiber Optic Diffused and Thru-Beam Mode

See page 708

2 versions available:

- High sensitivity/high power
- High speed (/130)

Sensing Range: Determined by fiber optic cable

Output: NPN, PNP

See pages 709-710 for SU16 Series specifications, wiring and dimensions.

Photoelectric Sensors

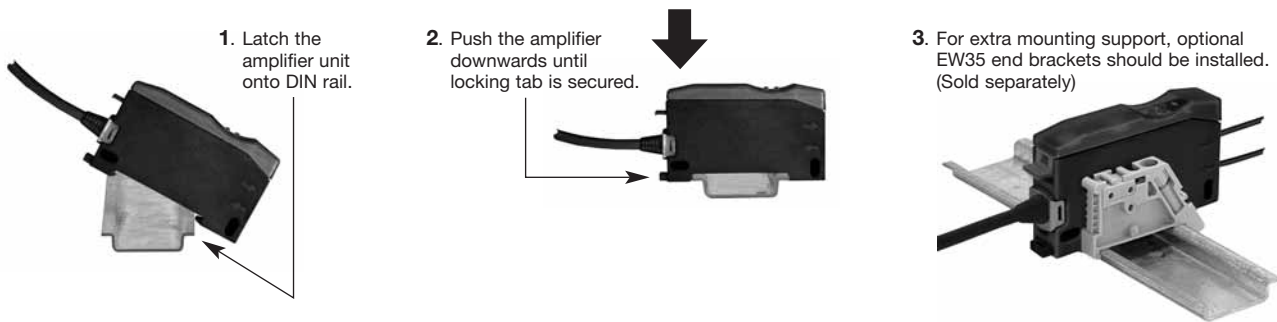


Fiber Optic Diffused and Thru-Beam Mode

Specifications	High Power		High Speed
SENSING RANGE	Determined by cable*	Determined by cable*	Determined by cable*
SENSITIVITY ADJUSTMENT	Yes	Yes	Yes
MODEL NUMBER(S)	SU16-K/102/115/126a	SU16-K/102/115b/126a	SU16-K/102/115/126a/130
	SU16-K/82a/103/115	SU16-K/82a/103/115b	SU16-K/82a/103/115/130
OUTPUT: Transistor, Open Collector	/102	1 NPN	1 NPN
	/103	1 PNP	1 PNP
SUPPLY VOLTAGE	10-30VDC	10-30VDC	10-30VDC
HYSTERESIS	10.6%	10.6%	20%
RESPONSE TIME	≤500μs	≤500μs	≤50μs on/≤70μs off
SWITCHING FREQUENCY	1kHz	1kHz	8kHz
LIGHT SOURCE	Visible red LED	Visible red LED	Visible red LED
ELECTRICAL CONNECTION	2-meter cable, PVC covered 4-conductor	152mm pigtail, PVC covered, quick disconnect type V1	2-meter cable, PVC covered 4-conductor
ADDITIONAL DATA	See pages 709-710		

Mounting Instructions

The 35mm DIN mounting track provides an easy method for mounting P+F sensing amplifiers. The track is available in 1-meter sections.



*See pages 731-762 for glass and plastic fiber optic lengths and specifications.



Series Specifications

SU16 Series Specifications		
LOAD CURRENT		100mA max.
VOLTAGE DROP		≤1.0VDC
SHORT CIRCUIT AND OVERLOAD PROTECTION		Yes
REVERSE POLARITY PROTECTION		Yes
VOLTAGE RIPPLE		10%
LED(s)		Yes (2)
CURRENT CONSUMPTION		≤35mA
OPERATING MODE		Light on/dark on
OPTIONAL OFF DELAY TIMING		40 ±10ms
PROTECTION (IEC)		IP40
WORKING TEMPERATURE RANGE	AMPLIFIER	-4°F to +140°F
	FIBER-OPTIC CABLE	-22°F to +158°F
STORAGE TEMPERATURE RANGE		-40°F to +158°F
HOUSING MATERIAL		Polycarbonate
APPROVALS	General Purpose	No
	General Purpose	No

Wiring Diagrams

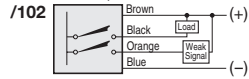
DC



Cable Connection

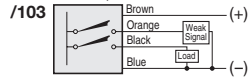
Light On/Dark On

NPN Output



Light On/Dark On

PNP Output



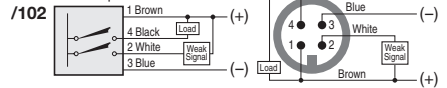
Quick Disconnect

Note: Wiring diagrams show quick disconnect pin numbers.

V1 Type

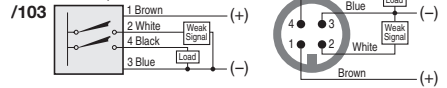
Light On/Dark On

NPN Output

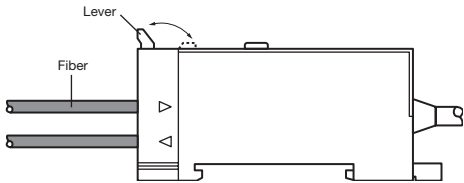


Light On/Dark On

PNP Output

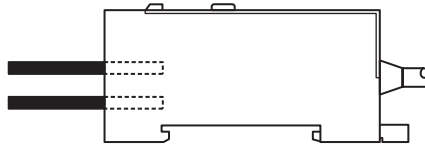


Attaching Fiber Optic Cables to SU16 Series

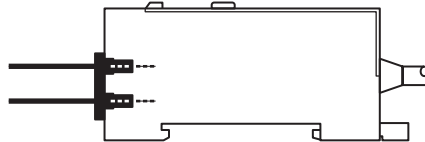


1. Unlock the lever on the top of the amplifier. The lever will spring open.
2. Insert a standard 2 mm diameter fiber optic cable into the housing until the cable goes no farther. For 1 mm diameter cables, insert the adapter and then slide the cable through until the cable stops.
3. Turn the lever so that it locks. If the lever is not locked, the spring will push it open.

Standard Fiber (ø2.2mm diameter)



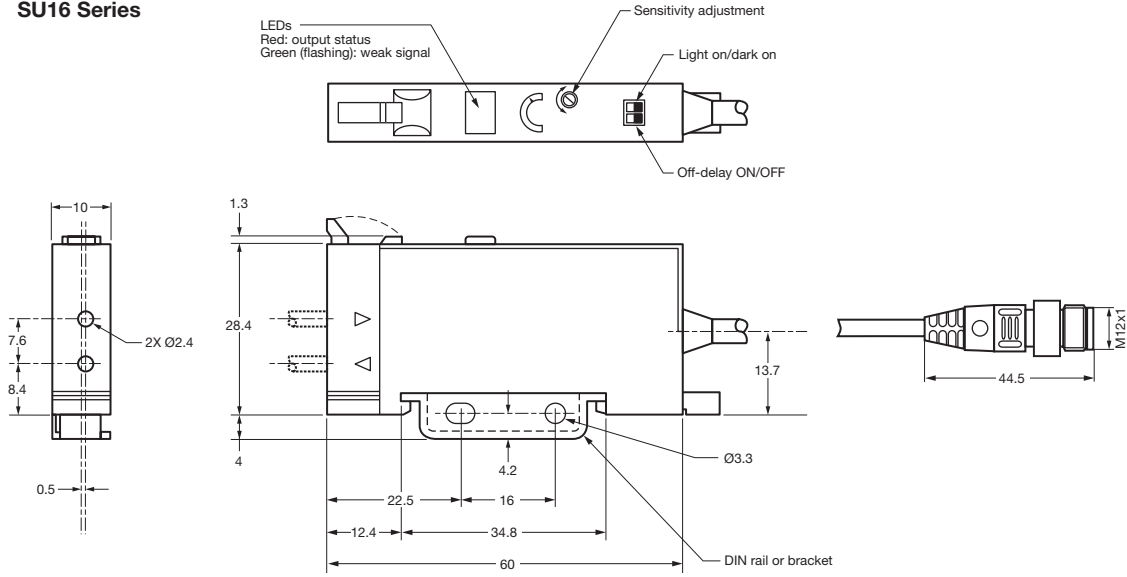
Slim Fiber (ø1mm diameter)



Photoelectric Sensors

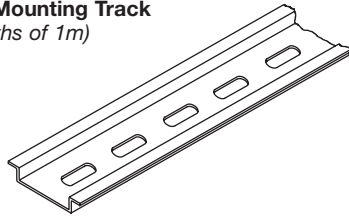
Dimensions (mm)

SU16 Series

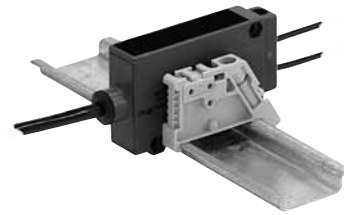


Accessories

35mm DIN Mounting Track
(sold in lengths of 1m)



DIN Track End Bracket Model EW35



See pages 731-762 for glass and plastic fiber optic lengths and specifications.



See pages 767-812 for cordsets



See pages 825-836 additional accessories for photoelectric sensors

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