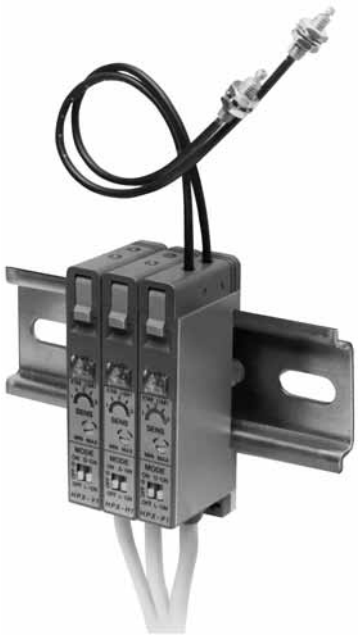
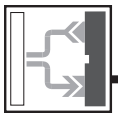


SU16 Series
Fiber Optic Photoelectric Sensors

- 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.

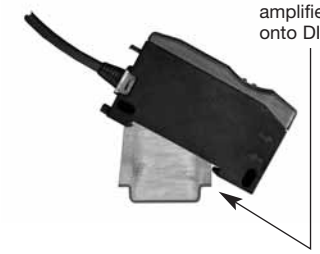
Fiber Optic Diffused and Thru-Beam Mode

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	1 NPN
	/103	1 PNP	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*		

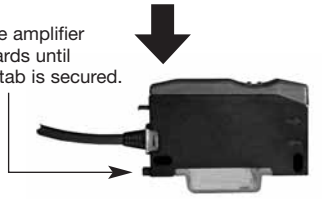
Mounting Instructions

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

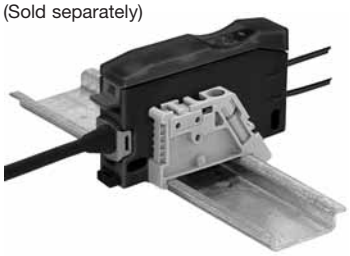
1. Latch the amplifier unit onto DIN rail.



2. Push the amplifier downwards until locking tab is secured.



3. For extra mounting support, optional EW35 end brackets should be installed. (Sold separately)



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

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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 cULus LISTED	General Purpose	No
CE CSA CERTIFIED	General Purpose	No

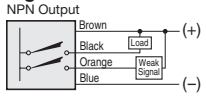
Wiring Diagrams

DC

Cable Connection

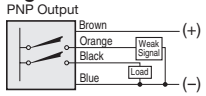
Light On/Dark On
NPN Output

/102



Light On/Dark On
PNP Output

/103



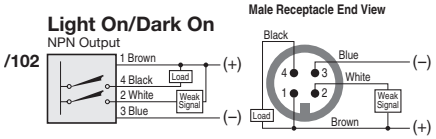
Quick Disconnect

Note: Wiring diagrams show quick disconnect pin numbers.

V1 Type

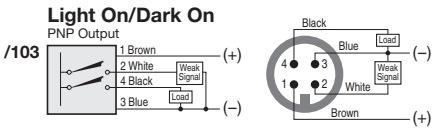
Light On/Dark On
NPN Output

/102

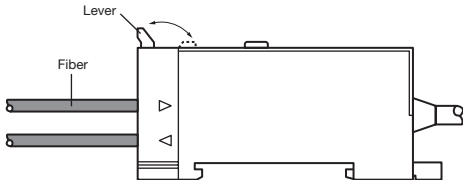


Light On/Dark On
PNP Output

/103

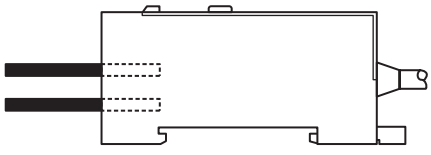


Attaching Fiber Optic Cables to SU16 Series

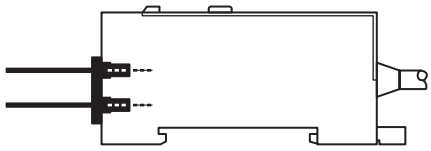


1. Unlock the lever on the top of the amplifier. The lever will spring open.
2. Insert a standard 2 mm diameter fiber optic cable into the housing until the cable goes no farther. For 1 mm diameter cables, insert the adapter and then slide the cable through until the cable stops.
3. Turn the lever so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

Standard Fiber (ø2.2mm diameter)

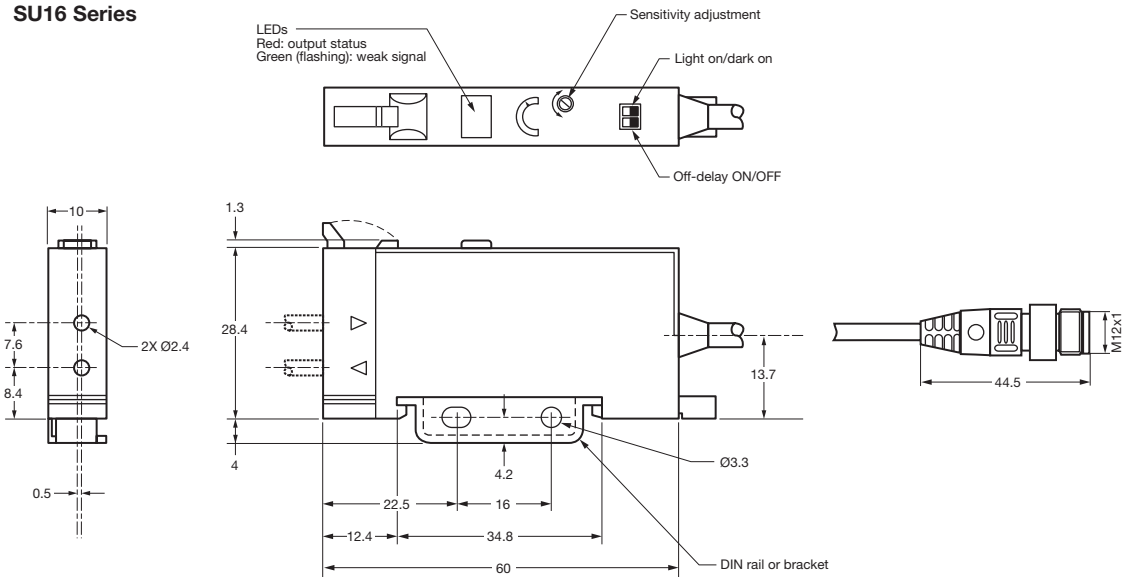


Slim Fiber (ø1mm diameter)



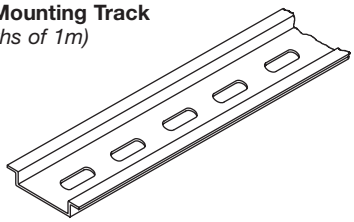
Dimensions (mm)

SU16 Series

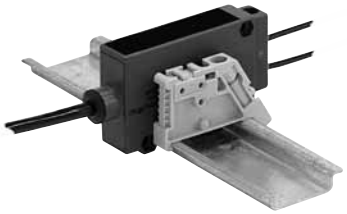


Accessories

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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