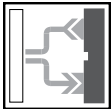


## SU16 Series Fiber Optic Sensors

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



### Fiber Optic Diffuse and Thru-Beam Mode

See page 740

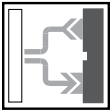
**2 versions available:**

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




**Sensing Range:** Determined by fiber optic cable

**Output:** NPN, PNP

See pages 741-742 for SU16 Series specifications, wiring and dimensions.



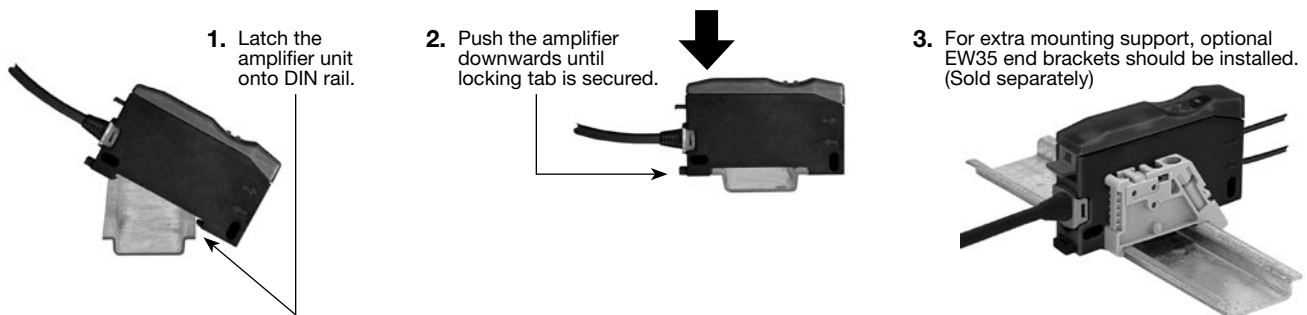
## Fiber Optic Diffuse and Thru-Beam Mode

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	10-30 VDC	10-30 VDC	10-30 VDC
HYSTERESIS	10.6%	10.6%	20%
RESPONSE TIME	≤ 500 μs	≤ 500 μs	≤ 50 μs on, ≤ 70 μs off
SWITCHING FREQUENCY	1 kHz	1 kHz	8 kHz
LIGHT SOURCE	Visible red LED	Visible red LED	Visible red LED
ELECTRICAL CONNECTION	 2-meter cable, PVC covered 3-conductor	 152 mm pigtail, PVC covered, quick disconnect type V1	 2-meter cable, PVC covered 3-conductor
ADDITIONAL DATA	See pages 741-742		

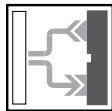
- ⚡ Stocked item
- Typical delivery 4 weeks or less  
Consult factory for all other models

## Mounting Instructions

The 35 mm DIN mounting track provides an easy method for mounting the SU16 Series. The track is available in 1-meter sections.



\*See pages 761-796 for fiber optic lengths and specifications.



## Series Specifications

### SU16 Series Specifications

LOAD CURRENT	100 mA max.
VOLTAGE DROP	≤ 1.0 VDC
SHORT CIRCUIT AND OVERLOAD PROTECTION	Yes
REVERSE POLARITY PROTECTION	Yes
VOLTAGE RIPPLE	10%
LED(s)	Yes (2)*
CURRENT CONSUMPTION	≤ 35 mA
OPERATING MODE	Light on/dark on
OPTIONAL OFF-DELAY TIMING	40 ± 10 ms
PROTECTION (IEC)	IP40
TEMPERATURE RANGE	
WORKING	-4 °F to +131 °F
STORAGE	-40 °F to +158 °F
HOUSING MATERIAL	Polycarbonate
APPROVALS	CE

\*See dimensional drawings for LED functions.

### Wiring Diagrams

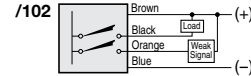
#### DC



#### Cable Connection

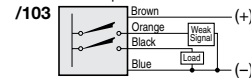
##### Light On/Dark On

NPN Output



##### Light On/Dark On

PNP Output



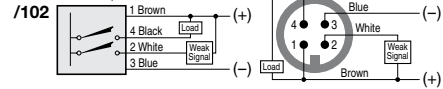
#### Quick Disconnect

Note: Wiring diagrams show quick disconnect pin numbers.

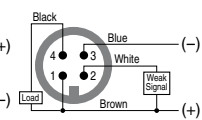
#### V1 Type

##### Light On/Dark On

NPN Output

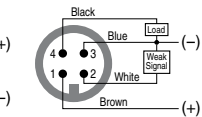
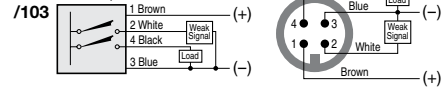


Male Receptacle End View

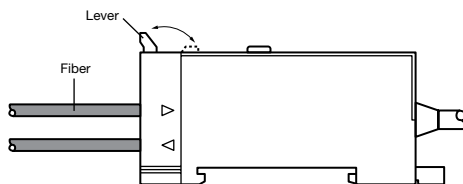


##### Light On/Dark On

PNP Output

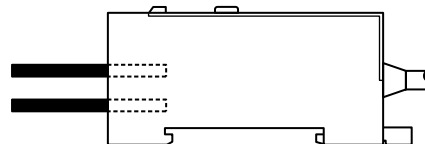


## Attaching Fiber Optic Cables to SU16 Series

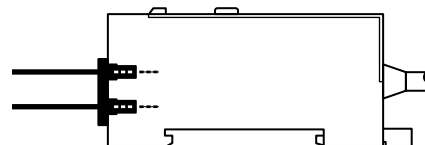


1. Unlock the lever on the top of the amplifier. The lever will spring open.
2. Insert a standard 2.2 mm diameter fiber optic cable into the housing until the cable goes no farther. For 1 mm diameter cables, insert fiber ends into the adapter and then slide the adapter into the sensor until it stops.
3. Turn the lever so that it locks. If the lever is not locked, the spring will push it open.

#### Standard Fiber (ø2.2 mm diameter)

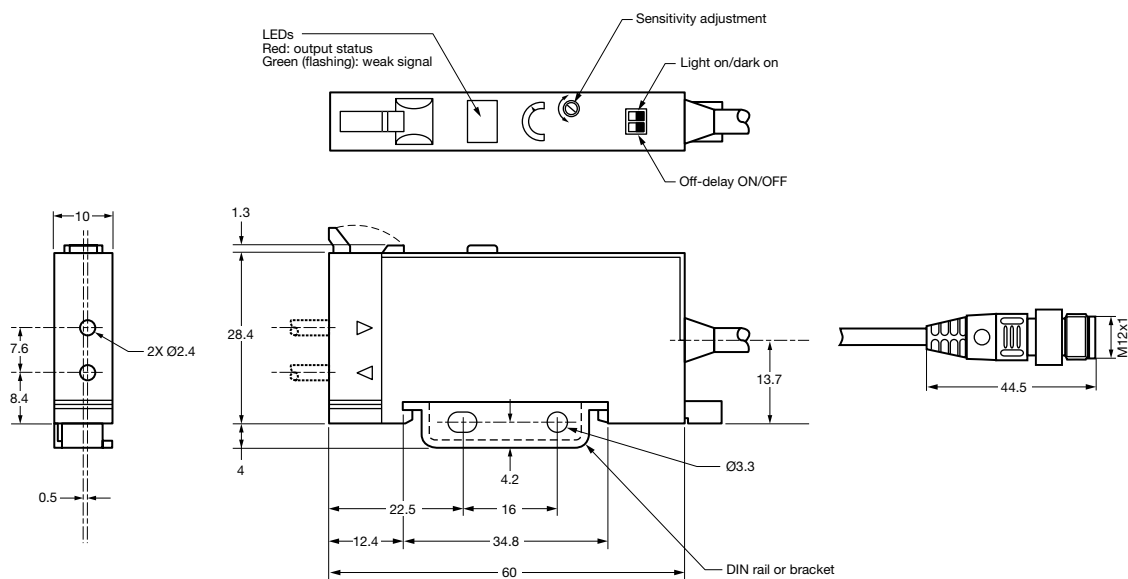


#### Slim Fiber (ø1 mm diameter)



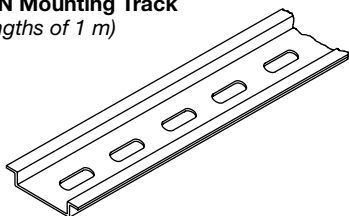
## Dimensions (mm)

### SU16 Series

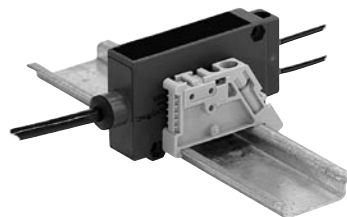


## Accessories

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



### DIN Track End Bracket Model EW35



See pages 761-796 for  
fiber optic lengths and  
specifications.



See pages  
803-854 for  
cordsets



See pages 855-896  
for additional  
accessories