



SU16 SeriesFiber 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.







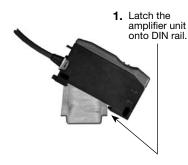
Fiber Optic Diffuse and Thru-Beam Mode

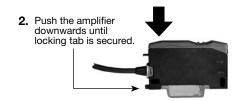
| Specifications | | High Power | | High Speed |
|------------------------|-------------------------|--|---|--|
| SENSING RANGE | | Determined by cable* | Determined by cable* | Determined by cable* |
| SENSITIVITY ADJUSTMENT | | Yes | Yes | Yes |
| MODEL NUMBER(S) | | SU16-K/102/115/126a 🗲 | SU16-K/102/115b/126a | SU16-K/102/115/126a/130 |
| | | SU16-K/82a/103/115 • | SU16-K/82a/103/115b | SU16-K/82a/103/115/130 • |
| | | | | |
| OUTPUT: Transistor, | /102 | 1 NPN | 1 NPN | 1 NPN |
| Open Collector ——— | /103 | 1 PNP | 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 | \leq 50 µs on, \leq 70 µs off |
| SWITCHING FREQUENCY | ITCHING 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.





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







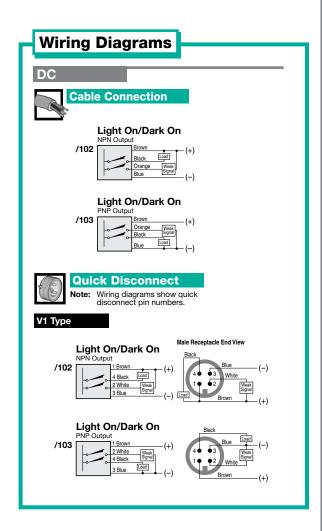




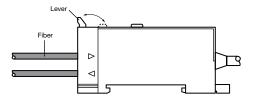
Series Specifications

| SU16 Series Specifications | | | | |
|---------------------------------------|------------------|-------------------|--|--|
| | | | | |
| LOAD CURRENT | 100 mA max. | | | |
| VOLTAGE DROP | ≤ 1.0 VDC | | | |
| SHORT CIRCUIT AND OVERLOAD PROTECTION | Yes | | | |
| REVERSE POLARITY PRO | Yes | | | |
| VOLTAGE RIPPLE | 10% | | | |
| LED(s) | Yes (2)* | | | |
| CURRENT CONSUMPTION | ≤ 35 mA | | | |
| OPERATING MODE | Light on/dark on | | | |
| OPTIONAL OFF-DELAY TII | 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 | | |

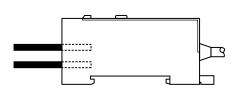
^{*}See dimensional drawings for LED functions.



Attaching Fiber Optic Cables to SU16 Series



- 1. Unlock the lever on the top of the amplifier. The lever will spring open.
- 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.

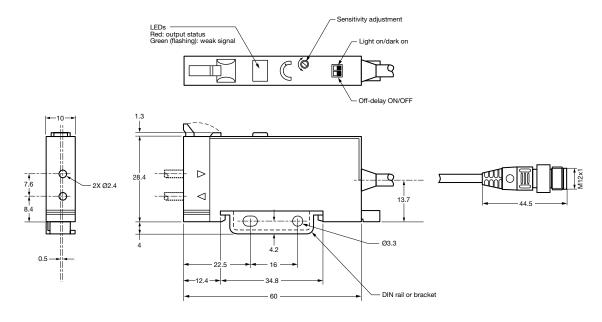


Standard Fiber (ø2.2 mm diameter)

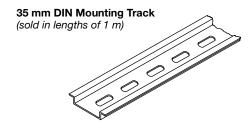
Slim Fiber (ø1 mm diameter)

Dimensions (mm)

SU16 Series



Accessories



DIN Track End Bracket Model EW35









