



FS-M1H
Fiber Amplifier, Cable Type, Main Unit, NPN



*Please note that accessories depicted in the image are for illustrative purposes only and may not be included with the product.

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This model has been discontinued.

Compliance with the certification standard is ensured as of the time of shipment from our company.

Contact Us: 1-888-539-3623

Recommended Replaceable Products: [Digital Fiber Optic Sensor - FS-N40 series](#)

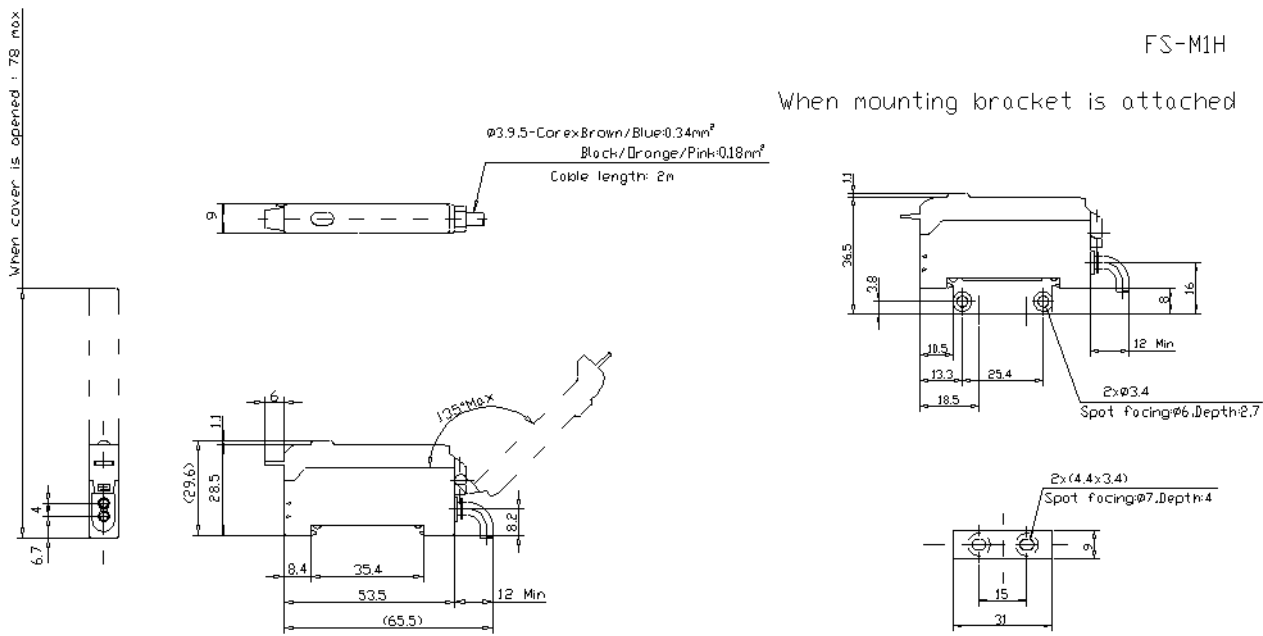
Specifications

| | | |
|---------------------------------------|----------------------|---|
| Model | | FS-M1H |
| Light source | | Red LED |
| Sensitivity adjustment/Mode selection | | 8-turn trimmer (with indicator), FINE/TURBO (switch-selectable) |
| Response time | | 20 μs (FINE) /50 μs (TURBO) |
| Operation mode | | LIGHT-ON/DARK-ON (switch-selectable) |
| Indicator lamp | | Output: Red LED Stable operation: Green LED |
| Timer function | | ON-delay: 40 ms/OFF-delay: 40 ms/Timer OFF (switch-selectable) |
| Control output | | NPN open-collector 100 mA max. (24 VDC max.), Residual voltage: 1 V max. |
| Stability output | | NPN open-collector: 50 mA max. (40 VDC max.), Residual voltage:1 V max. |
| Protection circuit | | Reversed polarity protection, over-current protection, surge absorber |
| Rating | Power voltage | 12 to 24 VDC ±10 %, Ripple (P-P) 10 % or less |
| | Current consumption | 35 mA or less |
| Environmental resistance | Ambient light | Incandescent lamp: 10,000 lux max., Sunlight: 20,000 lux max. |
| | Ambient temperature | -10 to +55 °C 14 to 131 °F (No freezing)*1 |
| | Relative humidity | 35 to 85 % RH (No condensation) |
| | Vibration resistance | 10 to 55 Hz, Double amplitude 1.5 mm 0.06" , 2 hours in each of the X, Y, and Z directions |
| | Shock resistance | 500 m/s ² , 3 times in each of the X, Y, and Z directions |
| Case material | | Polycarbonate |
| Weight | | Approx. 75 g |

*1 When several units are connected, the ambient temperature requirement varies depending on the total number of units connected.
When 3 to 10 units: -10 to +50 °C **14 to 122 °F**
When 11 to 16 units: -10 to +45 °C **14 to 113 °F**
When connecting several units, be sure to mount the units to a metallic DIN rail. Make sure that the output current does not exceed 20 mA.

Dimensions

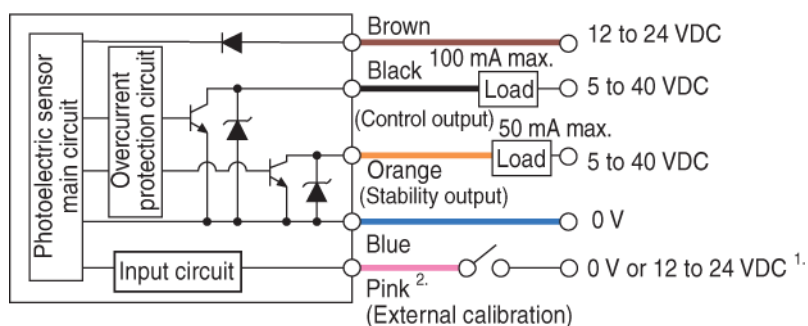
* Download CAD file or product manual for larger image/text and more detail.



I/O Circuit Connection diagram

* Download CAD file or product manual for larger image/text and more detail.

I/O Circuit



1. When the external calibration input is not used, cut the pink cable at the root, or connect this cable to the positive terminal of the power supply.

2. The FS-M1/M1H does not have a pink cable (for external calibration).

When the stability output is not used, cut the orange cable at the base, or connect this cable to the 0 V terminal of the power supply.