



## FS-V12P

Fibre Amplifier, Cable Type, Expansion Unit, PNP

**[Discontinued model]**

This model has been discontinued.

**Recommended Replaceable Products**

- Digital Fibre optic Sensor  
FS-N40 series

**To contact us:**

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**SPECIFICATIONS**

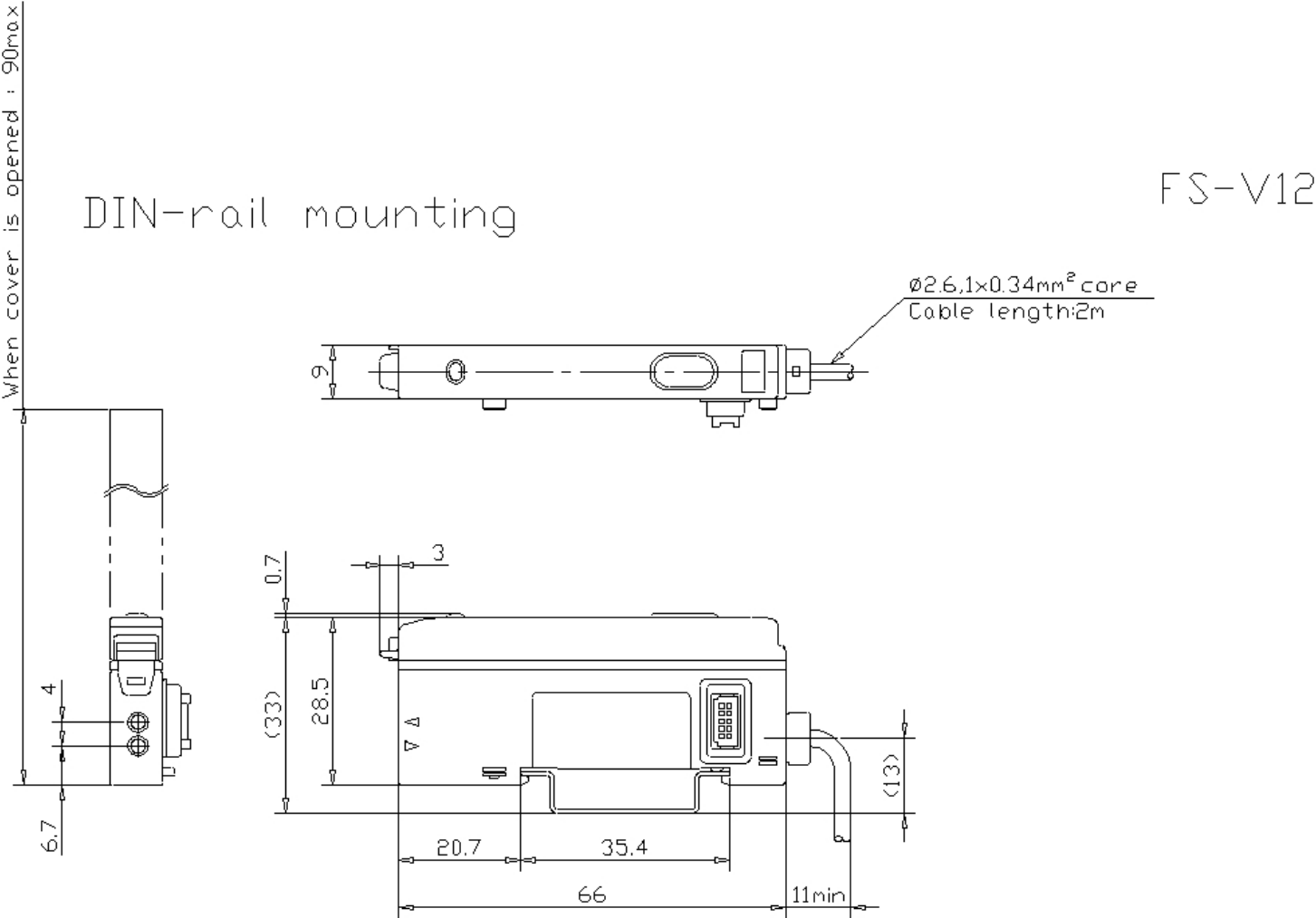
|                                 |                      |                                                                                                                                               |
|---------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Model                           |                      | FS-V12P                                                                                                                                       |
| Type                            |                      | 1-line expansion unit                                                                                                                         |
| Output                          |                      | PNP                                                                                                                                           |
| Light source                    |                      | Red LED                                                                                                                                       |
| Response time                   |                      | 250 $\mu$ s (FINE) / 500 $\mu$ s (TURBO) / 1 ms (SUPER TURBO)                                                                                 |
| Operation mode                  |                      | LIGHT-ON/DARK-ON (switch-selectable)                                                                                                          |
| Indicator lamp                  |                      | Display indicator: Red LED<br>Digital LED monitor: Seven segments, four digits, red LED<br>Bar LED monitor: One orange LED and six green LEDs |
| Timer function                  |                      | ON-delay: 40 ms / OFF-delay: 10 ms / Timer OFF (switch-selectable)                                                                            |
| Control output                  |                      | PNP open-collector 100 mA max. (24 VDC max.), Residual voltage: 1 V max.                                                                      |
| Protection circuit              |                      | Reversed polarity protection, over-current protection, surge absorber                                                                         |
| Unit expansion                  |                      | Up to 16 expansion units can be connected (a total of 17 units). <sup>*1</sup>                                                                |
| Mutual interference suppression |                      | FINE : 4, TURBO/SUPER: 8                                                                                                                      |
| Rating                          | Power voltage        | 12 to 24 VDC $\pm$ 10 %, Ripple (P-P) 10 % or less <sup>*2</sup>                                                                              |
|                                 | Current consumption  | 50 mA or less                                                                                                                                 |
| Environmental resistance        | Ambient light        | Incandescent lamp: 10,000 lux max., Sunlight: 20,000 lux max.                                                                                 |
|                                 | Ambient temperature  | -10 to +55 °C (No freezing)                                                                                                                   |
|                                 | Relative humidity    | 35 to 85 % RH (No condensation)                                                                                                               |
|                                 | Vibration resistance | 10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions                                                           |
|                                 | Shock resistance     | 500 m/s <sup>2</sup> , 3 times in each of the X, Y, and Z directions                                                                          |
| Case material                   |                      | Polycarbonate                                                                                                                                 |
| Weight                          |                      | Approx. 45 g                                                                                                                                  |

<sup>\*1</sup> If more than one unit is used together, the ambient temperature varies with the conditions below. Mount the units on the DIN rail with mounting brackets and check that the output current is 20 mA or less.  
3 to 10 Units: -10 to 50°C, 11 to 16 Units: -10 to 45°C

<sup>\*2</sup> Neither the FS-V12 nor the FS-V10 can be used as a standalone unit.

Dimensions

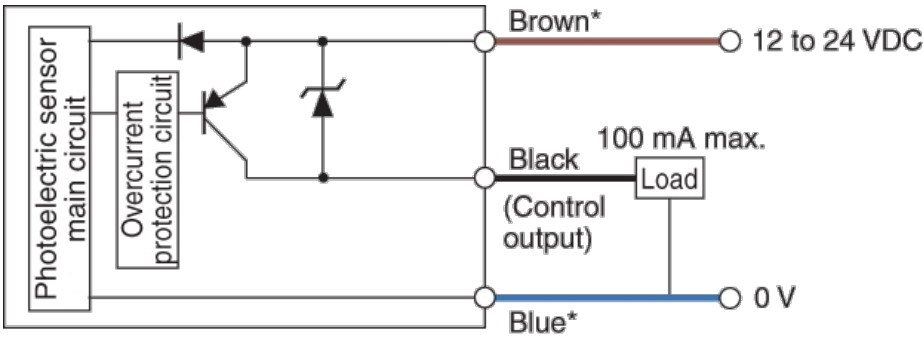
\* Download CAD file or product manual for larger image/text and more detail.



I/O Circuit Connection diagram

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

I/O Circuit



\*FS-V11P only