



FS-N41C

Main Unit (M8 Connector Type)





Specifications

Model		FS-N41C*1
Туре		M8 Connector*2
Main unit/expansion unit		Main unit
Response time		23 μs (S-HSPD*3) /50 μs (HSPD*4) /250 μs (FINE) /500 μs (TURBO) /1 ms (SUPER) /4 ms (ULTRA) /16 ms (MEGA) /64 ms (TERA)
Number of control outputs		2*5
Number of external inputs		1*5
Light source LED		Transmitter side: Red, four-element LED (wavelength: 660 nm)
Control output		Open-collector, 30 V or less 100 mA or less per output, 100 mA or less total for 2 outputs (when used as a solitary unit) /20 mA or less (when used as an expansion unit) Residual voltage NPN 1.4 V or less (output current: 10 mA or less) /2 V or less (output current: 10 to 100 mA) PNP 1.6 V or less (output current: 10 mA or less) /2.2 V or less (output current: 10 to 100 mA)
External input		Input time: 2 ms (ON) /20 ms (OFF) or longer*6
Protection circuit		Protection against reverse power connection, output overcurrent, output surge, and reverse output connection
Mutual interference prevention		S-HSPD/HSPD: 0 units, FINE: 4 units, TURBO/SUPER/ULTRA/MEGA/TERA: 8 units (The mutual interference prevention values are twice those shown here when Double is set.)
Power supply	Power voltage	10 to 30 VDC (including 10 % ripple (P-P) or less) , class 2 or LPS*7
	Power consumption	During normal operation: 910 mW or less (36 mA or less at 24 V/65 mA or less at 12 V) ECO ON: 840 mW or less (33 mA or less at 24 V/60 mA or less at 12 V) ECO FULL: 750 mW or less (30 mA or less at 24 V/52 mA or less at 12 V)*8
Environmental resistance	Ambient light	Incandescent lamp: 20,000 lx or less, sunlight: 30,000 lx or less
	Ambient temperature	-20 °C -4 °F to +55 °C +131 °F (no freezing)*9
	Vibration resistance	10 to 55 Hz; double amplitude 1.5 mm 0.06"; 2 hours each for X, Y, and Z axes
	Shock resistance	500 m/s ² ; 3 times each for X, Y, and Z axes
Case material		Main unit and cover: polycarbonate
Weight		Approx. 25 g

^{*1} IO-Link Specifi cation V.1.1/COM2 (38.4 kbps) is supported.

Output 2 of dual output types is fixed to OFF.

IO-Link communication cannot be used.

Area detection, Area % Mode, DATUM, Rising edge, and Falling edge cannot be selected for Detection Mode.

Output timer, Limit Detection, and Display Gain cannot be used.

FULL cannot be selected for the ECO function.

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^{*2} Ensure the cable length is 30 m 98.4" or less for the M8 connector type. Ensure the cable length is 20 meters 65.6' or less when connecting by way of IO-Link.

^{*3} Restrictions when S-HSPD is selected



*4 Restrictions when HSPD is selected

Display Gain cannot be used.

- *5 Output 2 and the external input are selectable.
- *6 The input time becomes 25 ms (ON)/25 ms (OFF) when external calibration input is selected.
- *7 When expanding the system to 9 or more units, use a power supply voltage of 12 V or higher.
 *8 The load current is excluded. The power consumption including the load when the maximum number of units are connected is 38 W max.
- *9 When expanded by 1 to 2 units: -20°C -4°F to +55°C +131°F. When expanded by 3 to 10 units: -20°C -4°F to +50°C +122°F. When expanded by 11 to 16 units: -20°C -4°F to +45°C +113°F. When using 2 outputs, 1 unit is counted as 2 units.

The prescribed values for the ambient temperature assume that the sensor amplifi er has been mounted on a DIN rail installed on a metal surface. Exercise special care when installing the product in an airtight space.

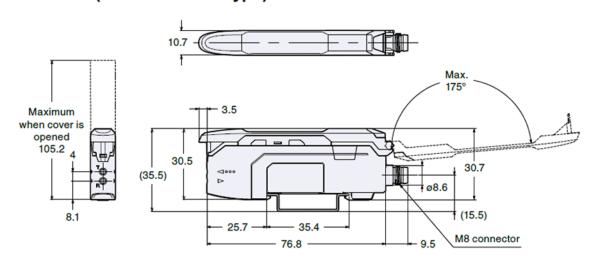


Dimensions

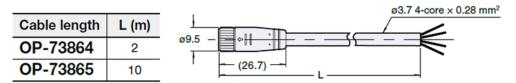
* Download CAD file or product manual for larger image/text and more detail.

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FS-N41C Main Unit (M8 Connector Type)



M8 Connector Cable (Option, Sold Separately)



Amplifier Securing Bracket (OP-88245 Option, Sold Separately)

M8 Connector Type

