



FS-N40

Expansion Unit (Zero Line Type)



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

Specifications

| | | |
|--------------------------------|--|---|
| Model | FS-N40 | |
| Type | Zero Line Type | |
| Main unit/expansion unit | Expansion unit | |
| Response time | 23 μ s (S-HSPD*1) /50 μ s (HSPD*2) /250 μ s (FINE) /500 μ s (TURBO) /1 ms (SUPER) /4 ms (ULTRA) /16 ms (MEGA) /64 ms (TERA) | |
| Number of control outputs | None*3 | |
| Light source LED | Transmitter side: Red, four-element LED (wavelength: 660 nm) | |
| External input | Input time: 2 ms (ON) /20 ms (OFF) or longer*4 | |
| Unit expansion | Up to 16 units (17 units connected in total including the main unit) . However, each dual output type will be treated as two expansion units. | |
| 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*5 |
| | Power consumption | During normal operation: 870 mW or less (34 mA or less at 24 V/62 mA or less at 12 V) ECO ON: 800 mW or less (31 mA or less at 24 V/56 mA or less at 12 V) ECO FULL: 710 mW or less (28 mA or less at 24 V/49 mA or less at 12 V)*6 |
| 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)*7 |
| | 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. 23 g | |

*1 Restrictions when S-HSPD is selected

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.

*2 Restrictions when HSPD is selected

Display Gain cannot be used.

*3 This counts as 1 output when connecting multiple units to the FS-MC8N/P, NU Series.

*4 The input time becomes 25 ms (ON)/25 ms (OFF) when external calibration input is selected.

*5 When expanding the system to 9 or more units, use a power supply voltage of 12 V or higher.

*6 The load current is excluded. The power consumption including the load when the maximum number of units are connected is 38 W max.

*7 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 amplifier 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.

fs-n40_dimension_01.gif

FS-N40

