

LR-XN12N

Separate Amplifier Model, Amplifier Units Cable Type Expansion unit NPN

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

Specifications

Model		LR-XN12N
Type		NPN Output
Cable/Connector		Cable
Main Unit/Expansion Unit		Expansion Unit
No. of Control Outputs		2
No. of External Inputs		1
Response Time		500 µs*1/1 ms/3 ms/10 ms/200 ms Selectable
IO-Link		—
Functions	Timer Function	Timer OFF/Off-delay/On-delay/One-shot/On-Off delay/On-delay One-shot
I/O	Control Output	Open collector, 30 VDC or lower, N.O./N.C. When used as a solitary unit: 100 mA or lower for 1 output; 100 mA or lower in total for 2 outputs; When expanding with multiple units: 50 mA or lower for 1 output Residual voltage NPN: 1.4 V or lower (output current: 10 mA or lower)/2 V or lower (output current: 10 to 100 mA)
	External Input	External Set/Laser OFF/Zero Shift/Hold Reset/Gyro Alert RST selectable Short circuit current - NPN: 1 mA or lower Input time: 3 ms or more ON, 20 ms or more OFF (25 ms or more ON, 25 ms or more OFF only when External Set is selected)
Unit Expansion		Up to 8 expansion units possible (including main unit, a total of 9 units connected) However, up to 16-unit expansion is possible when the LR-XN10 is used for expansion with the NU Series.
Protection Circuit		Protection against reverse power connection, protection against output overcurrent, protection against output surge, protection against reverse output connection
Number of Interference Prevention Devices		OFF/4 units/8 units selectable*2
Power supply	Power voltage	16 to 30 VDC*3 (including 10% ripple (P-P) or less), class 2
	Power consumption	During normal operation: 1060 mW (44 mA or lower at 24 V, 61 mA or lower at 16 V), ECO ON/ALL: 895 mW (37 mA or lower at 24 V, 50 mA or lower at 16 V) (excluding Load Current)
Environmental resistance	Ambient temperature	−20 to +55°C -4°F to 131°F (no freezing)*4
	Relative humidity	35 to 85% RH (no condensation)
	Vibration resistance	10 to 500 Hz; Power Spectral Density: 0.816 G²/Hz; X, Y, and Z directions
	Shock resistance	500 m/s² (50G); 3 times each for X, Y, and Z axes
Case Material		Main Unit and Cover: Polycarbonate
Accessories		Instruction manual
Weight		Approx. 70 g

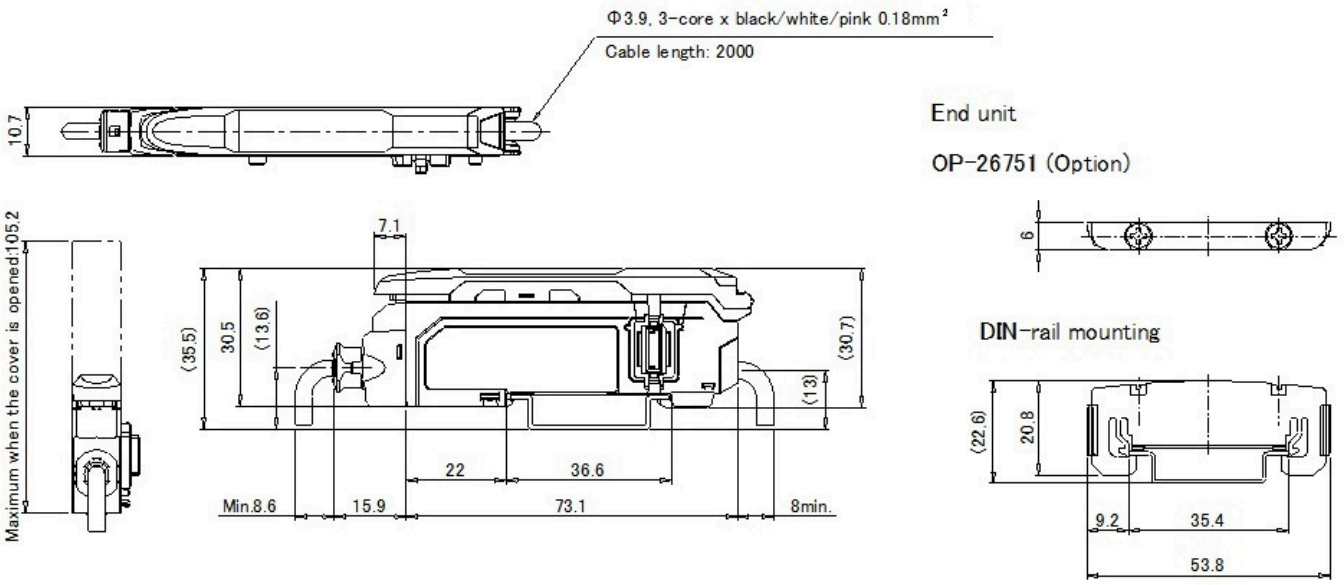
*1 If 500 µs is selected, the following limitations apply.
· Only 2-point calibration can be performed.
· The detection range masking is set during calibration. (Manual setting of the masking range is not supported.)

· Output 2 is limited to an alarm output for errors and gyro issues, and standard/area cannot be used.
· The interference prevention function is not supported
*2 Selecting four or eight interference prevention units causes the response time to change as follows: 4 Units selected: 6 ms/18 ms/60 ms/1.2 s selectable; 8 Units selected: 12 ms/36 ms/120 ms/2.4 s selectable.
*3 When expanding the system with 4 or more expansion units, use a power voltage of 20 V or higher.
*4 Expansion by 1 or 2 units: −20 to +55°C -4°F to 131°F; Expansion by 3 to 10 units: -20 to +50°C -4°F to 122°F, Expansion by 11 to 16 units: -20 to +45°C -4°F to 113°F

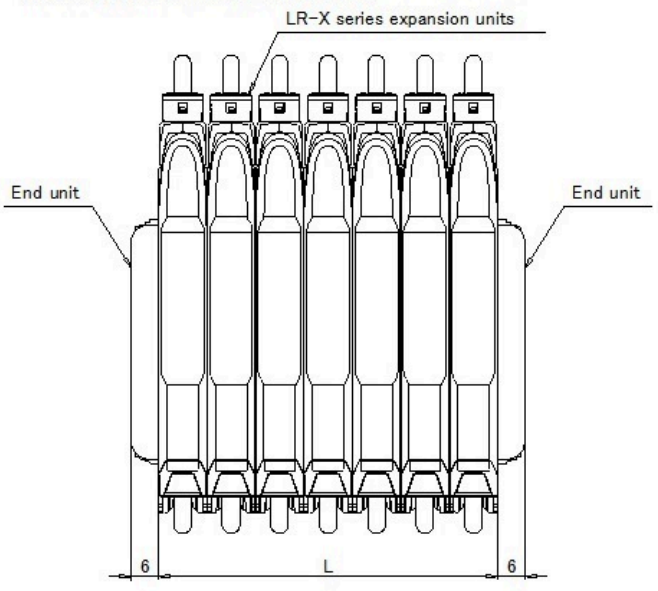
Dimensions

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

LR-XN12N_P



When several units are connected



No. of units	L(mm)
1	10.7
2	21.4
3	32.1
4	42.8
5	53.5
6	64.2
7	74.9
8	85.6
9	96.3

* When using expansion units, be sure to use the end units. (Optional)