



LR-XN11C

Separate Amplifier Model, Amplifier Units Main unit (M8 Connector Type)





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

Specifications

Type NPN output/PNP output (Selectable output) Cable/connector M8 connector¹ Main Unit(expansion Unit M8 connector¹ No. of Control Outputs 2² No. of External Inputs 1°2 Response Time 500 µs³3/1 ms/3 ms/10 ms/200 ms Selectable IO-Link Specification v1.1/COM2 (38.4 kbps) Function Timer Function Timer OFF/OFf-delay/On-delay/On-boll/On-Off delay/On-delay One-shot Input/Output Open collector, 30 VDC or less, N.O./N.C. 100 mA or less for 1 output; 100 mA or less (output current: 10 mA or less)/2 V or less (output current: 10 mA or less)/2 V or less (output current: 10 mA or less)/2 V or less (output current: 10 mA). PNP: 1.6 V or less (output current: 10 mA or less)/2 V or less (output current: 10 mA). PNP: 1.6 V or less (output current: 10 mA) or less)/2 V or less (output current: 10 mA) or less)/2 V or less (output current: 10 mA). PNP: 1.6 V or less (output current: 10 mA) or less)/2 V or less (output current: 10 mA) or less)/2 V or less (output current: 10 mA) or less)/2 V or less (output current: 10 mA) or less)/2 V or less (output current: 10 mA) or less are (output current: 10 mA) or less a	Model		LR-XN11C
Cable/connector M8 connector¹¹ Main Unit/Expansion			NPN output/PNP output (Selectable output)
No. of Control Outputs No. of External Inputs 122 Response Time 500 µs*3/1 ms/3 ms/10 ms/200 ms Selectable 10-Link Specification v1.1/COM2 (38.4 kbps) Function Timer Function Timer Function Timer Function Timer Function Timer Function Timer OFF/Off-delay/On-delay/One-shot/On-Off delay/On-delay One-shot Input/Output Control Output Open collector, 30 VDC or less, N.O./N.C. 100 mA or less for 1 output; 100 mA or less in total for 2 outputs 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). PNP: 1.6 V or less (output current: 10 mA or less)/2 .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). PNP: 1.6 V or less (output current: 10 mA or less)/2 .2 V or less (output current: 10 mA) or less, PNP: 2 mA or less, Input time: 3 ms or more ON, 20 ms or more ON, 25 ms or more OFF only when External Set is selected) Unit Expansion 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 — Power supply Power voltage 16 to 30 VDC*4 (including 10% ripple (P-P) or less), class 2 During normal operation: 1150 mW (47 mA or less at 24 V, 64 mA or less at 16 V) (excluding Load Current) Environmental resistance Ambient temperature -20 to +55°C (no freezing) ⁵ Relative humidity Vibration resistance Shock resistance Oom m/s² (50°G); 3 times each for X, Y, and Z directions Shock resistance Nain Unit and Cover: Polycarbonate Locessories			M8 connector*1
No. of External Inputs 12	Main Unit/Expansion Unit		Main Unit (expansion not possible)
Response Time 500 µs*3/1 ms/3 ms/10 ms/200 ms Selectable	No. of Control Outputs		2'2
IO-Link Specification v1.1/COM2 (38.4 kbps)	·		1*2
Function Timer Function Timer OFF/Off-delay/On-delay/One-shot/On-Off delay/On-delay One-shot Input/Output Control Output Open collector, 30 VDC or less, N.O./N.C. 100 mA or less in total for 2 outputs Residual voltage NPN: 1.4 V or less (output current: 10 mA or less)/2 V or less (output current: 10 mA or less)/2 V or less (output current: 10 mA or less)/2.2 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), PNP: 1.6 V or less (output current: 10 mA or less)/2.2 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), PNP: 1.6 V or less (output current: 10 mA or less)/2.2 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), PNP: 1.6 V or less (output current: 10 mA or less)/2.2 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 mA or less in total for 2 outputs are less (output current: 10 mA or less)/2.2 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current: 10 to 100 mA), PNP: 1.6 V or less (output current	Response Time		500 μs ⁺³ /1 ms/3 ms/10 ms/200 ms Selectable
Input/Output Control Output Open collector, 30 VDC or less, N.O./N.C. 100 mA or less for 1 output; 100 mA or less in total for 2 outputs 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), PNP: 1.6 V or less (output current: 10 mA or less)/2.2 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), PNP: 1.6 V or less (output current: 10 mA or less)/2.2 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) PNP: 1.6 V or less (output current: 10 mA or less)/2.2 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) PNP: 1.6 V or less (IO-Link		Specification v1.1/COM2 (38.4 kbps)
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Short circuit current - NPN: 1 mA or less, PNP: 2 mA or less 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 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 — Power supply Power voltage Power consumption During normal operation: 1150 mW (47 mA or less at 24 V, 64 mA or less at 16 V), ECO ON/ALL: 985 mW (40 mA or less at 24 V, 53 mA or less at 16 V) (excluding Load Current) Environmental resistance Ambient temperature -20 to +55°C (no freezing)*5 Relative humidity 35 to 85% RH (no condensation) Vibration resistance Shock resistance To to 500 m/s² (50G); 3 times each for X, Y, and Z axes Main Unit and Cover: Polycarbonate Accessories Instruction manual	Input/Output	Control Output	100 mA or less for 1 output; 100 mA or less in total for 2 outputs 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
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 Power supply Power voltage Power consumption Power consumption During normal operation: 1150 mW (47 mA or less at 24 V, 64 mA or less at 16 V), ECO ON/ALL: 985 mW (40 mA or less at 24 V, 53 mA or less at 16 V) (excluding Load Current) Environmental resistance Ambient temperature -20 to +55°C (no freezing)*5 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 Shock resistance Main Unit and Cover: Polycarbonate Accessories Protection against reverse power connection, protection against output overcurent, protection against output surge, protection against reverse output connection Protection against reverse power connection, protection against reverse power connection against reverse output connection — Main Unit and Cover: Polycarbonate		External Input	Short circuit current - NPN: 1 mA or less, PNP: 2 mA or less Input time: 3 ms or more ON, 20 ms or more OFF (25 ms or more ON, 25 ms or
overcurrent, protection against output surge, protection against reverse output connection Number of Interference Prevention Devices — Power supply Power voltage 16 to 30 VDC*4 (including 10% ripple (P-P) or less), class 2 Power consumption During normal operation: 1150 mW (47 mA or less at 24 V, 64 mA or less at 16 V) (excluding Load Current) Environmental resistance Ambient temperature —20 to +55°C (no freezing)*5 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 Accessories Instruction manual	Unit Expansion		_
Power supply Power voltage Power consumption During normal operation: 1150 mW (47 mA or less at 24 V, 64 mA or less at 16 V), ECO ON/ALL: 985 mW (40 mA or less at 24 V, 53 mA or less at 16 V) (excluding Load Current) Environmental resistance Ambient temperature -20 to +55°C (no freezing)*5 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 Instruction manual	Protection Circuit		overcurrent,
Power consumption During normal operation: 1150 mW (47 mA or less at 24 V, 64 mA or less at 16 V), ECO ON/ALL: 985 mW (40 mA or less at 24 V, 53 mA or less at 16 V) (excluding Load Current) Environmental resistance Ambient temperature -20 to +55°C (no freezing)*5 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 Instruction manual	Number of Interference Prevention Devices		_
Instruction manual 16 V), ECO ON/ALL: 985 mW (40 mA or less at 24 V, 53 mA or less at 16 V) (excluding Load Current) Ambient temperature -20 to +55°C (no freezing)*5 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	Power supply	Power voltage	16 to 30 VDC*4 (including 10% ripple (P-P) or less), class 2
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 Main Unit and Cover: Polycarbonate Accessories Instruction manual		Power consumption	16 V), ECO ON/ALL: 985 mW (40 mA or less at 24 V, 53 mA or less at 16 V)
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 Main Unit and Cover: Polycarbonate Accessories Instruction manual	Environmental resistance	Ambient temperature	−20 to +55°C (no freezing)*5
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		Relative humidity	35 to 85% RH (no condensation)
Case Material Main Unit and Cover: Polycarbonate Accessories Instruction manual		Vibration resistance	10 to 500 Hz; Power Spectral Density: 0.816 G ² /Hz; X, Y, and Z directions
Accessories Instruction manual		Shock resistance	500 m/s² (50G); 3 times each for X, Y, and Z axes
	Case Material		Main Unit and Cover: Polycarbonate
Weight Approx. 22 g	Accessories		Instruction manual
	Weight		Approx. 22 g

^{*1} Ensure the cable length is 30 m or less for the M8 connector type. Ensure the cable length is 20 m or less when connecting via IO-Link.

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^{*2} Output 2 and the external input are selectable.

 $^{^{*3}}$ If 500 μs is selected, the following limitations apply.

[·] Only 2-point calibration can be performed.

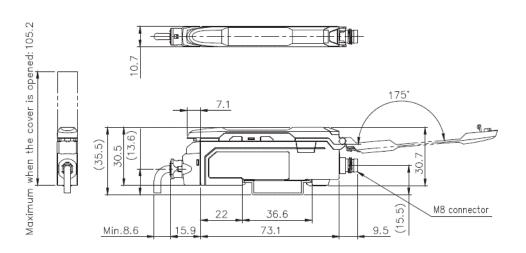
[·] The detection range masking is set during calibration. (Manual setting of the masking range is not supported.)



- · 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
- *4 When expanding the system with 4 or more expansion units, use a power voltage of 20 V or higher.
- *5 Expansion by 1 or 2 units: −20 to +55°C; Expansion by 3 to 10 units: -20 to +50°C, Expansion by 11 to 16 units: -20 to +45°C

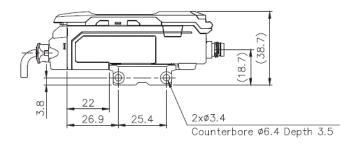
Dimensions

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

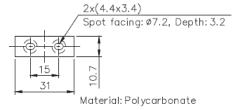


LR-XN11C

When the mounting bracket (OP-88245) is attached



Back of securing bracket



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