

Search Automation Controls 🔍

Home

Products

Download

Resource

Support

Sales  
Locations

Panasonic Industry > Automation Controls Top > FA Sensors & Components > Sensors > Area Sensors > NA2-N12-PN

Sensors

Area Sensors >

General Purpose & Slim Body  
Area Sensor NA2-N

NA2-N12-PN

Fiber Sensors >

Photoelectric Sensors / Laser  
Sensors >

Light Curtains / Safety  
Components >

Micro Photoelectric Sensors >

Inductive Proximity Sensors >

Particular Use Sensors >

Sensor Options >

Wire-Saving Systems >

Configuration examples of IO-  
Link compatible devices >

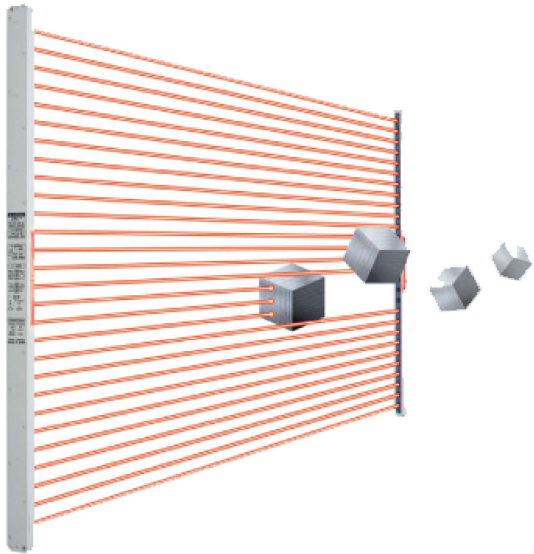
NA2-N12-PN | General  
Purpose & Slim Body Area  
Sensor NA2-N

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Catalog/  
Datasheet

CAD

Manual



\*Photo may vary from actual product.

RoHS  
compliant

?



Contact Us

Technical Inquiries,  
Purchase Support &  
Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Product Number	NA2-N12-PN
Part Number	NA2-N12-PN
Product	General Purpose & Slim Body Area Sensor
Details	PNP output
Product Name	<a href="#">General Purpose &amp; Slim Body Area Sensor NA2-N</a>

Contact Us

Technical inquiry

Business inquiry

Other inquiry

Spec  
Detail



Accessories  
(Option)



As of April 26, 2025 (JST)  
\*Specifications and design of the products are subject to change without notice for the product improvement.

## Spec Detail

Specifications and design of the products are subject to change without notice for the product improvement.

Item	Specifications
Product Number	NA2-N12-PN
Part Number	NA2-N12-PN
Products Name	General Purpose & Slim Body Area Sensor



Item	Specifications
Product details	PNP output
The price of the product	Please contact our office
Sensing height	220 mm 8.661 in
Sensing range	5 m 16.404 ft
Beam pitch	20 mm 0.787 in
Sensing object	dia. 30 mm dia. 1.181 in or more opaque object (completely beam interrupted objects)
Supply voltage	12 to 24 V DC plus or minus 10 % Ripple P-P 10 % or less
Power consumption:Emitter:Job indicator ON	0.8 W or less
Power consumption:Emitter:Job indicator OFF	0.7 W or less
Power consumption:Receiver:Job indicator ON	0.8 W or less
Power consumption:Receiver:Job indicator OFF	0.7 W or less
Output	PNP open-collector transistor - Maximum source current: 100 mA - Applied voltage: 30 V DC or less (between output and +V) - Residual voltage: 2 V or less (at 100 mA source current), 1 V or less



Item	Specifications
	(at 16 mA source current)
Output:Utilization category	DC-12 or DC-13
Output:Output operation	ON when all beam channels are received (OFF when one or more beam channels are interrupted)
Output:Short-circuit protection	Incorporated
Response time	10 ms or less (12 ms or less when the interference prevention function is used)
Indicators:Emitter	Emitting indicator: Green LED x 2 (light up during emission; one LED lights up for Frequency A setting, both LEDs light up for Frequency B setting) Job indicator: Red LED (lights up, blinks or lights off when the job indicator input is applied, selected by operation mode switch)
Indicators:Receiver	Operation indicator: Red LED (lights up when one or more beam channels are interrupted) Stable incident beam indicator



Item	Specifications
	<p>Green LED (lights up when all beam channels are stably received)</p> <p>Job indicator: Red LED (lights up, blinks or lights off when the job indicator input is applied, selected by operation mode switch)</p> <p>* When an excess current flows through the output, the stable incident beam indicator and the operation indicator on the receiver blink simultaneously due to operation of the short-circuit protection circuit.</p>
Interference prevention function	Incorporated
Test input (emission halt) function	Incorporated
Pollution degree	3 (Industrial environment)
Protection	IP40(IEC)
Ambient temperature	<p>-10 to +55 degrees</p> <p>+14 to +131 degrees Fahrenheit (No dew condensation or icing allowed),</p> <p>Storage: -10 to +60 degrees +14 to +140 degrees Fahrenheit</p>



Item	Specifications
Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH
Ambient illuminance	Incandescent light: 3,000 lx or less at the light-receiving face
Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure
Insulation resistance	20 MOhm , or more, with 250 V DC megger between all supply terminals connected together and enclosure
Vibration resistance	10 to 150 Hz frequency, 0.75 mm 0.030 in double amplitude in X, Y and Z directions for two hours each
Shock resistance	500 m/s <sup>2</sup> acceleration (50 G approx.) in X, Y and Z directions three times each
Emitting element	Infrared LED (Peak emission wavelength: 870 nm 0.034 mil, modulated) (Note: Peak emission wavelength has been changed



Item	Specifications
	from production in March, 2017.)
Material	Enclosure: Heat-resistant ABS Lens cover: Polyester Indicator cover: Acrylic
Cable	0.2 mm <sup>2</sup> 4-core cabtyre cable, 3 m 9.843 ft long
Cable extension	Extension up to total 25 m 82.021 ft is possible for both emitter and receiver, with 0.2 mm <sup>2</sup> , or more, cable.
Weight(Total weight of emitter and receiver)	Net weight: 400 g approx. Gross weight: 600 g approx.

## Accessories (Option)

	Product number	Part number	Product	D
	<a href="#">MS-NA1-1</a>	MS-NA1-1	-	-
	<a href="#">MS-NA2-1</a>	MS-NA2-1	-	-



	Product number	Part number	Product	D
	<a href="#">MS-NA3-N12</a>	MS-NA3-N12	-	-
	<a href="#">OS-NA2-N12</a>	OS-NA2-N12	-	-

Recently checked products

Recently checked product numbers

- NA2-N12 | General Purpose & Slim Body  
Area Sensor NA2-N >
- LX-101-P | Digital Mark Sensor LX-100 >
- LX-101 | Digital Mark Sensor LX-100 >
- HG-C1200-P | CMOS type Micro Laser  
Distance Sensor HG-C >
- HG-C1100-P | CMOS type Micro Laser  
Distance Sensor HG-C >

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Components,  
Motors  
Technical  
Support

Motors  
Technical  
Support

Motors for FA & Industrial  
Application, Motors for  
Appliance & Automotive

FA Sensors, PLC ,Eco  
Power Meters, Times,





Relays, Couplers,  
Connectors, Switches,  
and Other  
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Counters, Limit Switches  
and Other FA Sensors &  
Components

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## Guidelines for Ordering and Usage

Requests to customers (FA Sensors & Components [Excluding motors])

Requests to customers (Dedicated to industrial motors)

### Components & Devices

Relays / Couplers  
Connectors  
Switches  
Encoders / Potentiometers  
Transparent Conductive Film  
Cooling Fan

### FA Sensors & Components

Fiber Sensors	Sensor Options	Static Control Devices
Photoelectric Sensors / Laser Sensors	Wire-Saving Systems	Laser Markers / 2D Code Readers
Micro Photoelectric Sensors	Programmable Controllers / Motion Controller	Machine Vision System
Light Curtains / Safety Components	Human Machine Interface	Energy Management Solutions
Area Sensors	Pressure Sensors / Flow Sensors	
Inductive Proximity Sensors	Measurement Sensors	
Particular Use Sensors		

### Motors for FA & Industrial Application

AC Servo  
Motors for HVAC & Automotive



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