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Sensors

Area Sensors

General Purpose & Slim Body Area Sensor NA2-N

NA2-N20-PN

Fiber Sensors

Photoelectric Sensors / Laser Sensors

Light Curtains / Safety Components

Micro Photoelectric Sensors

Inductive Proximity Sensors

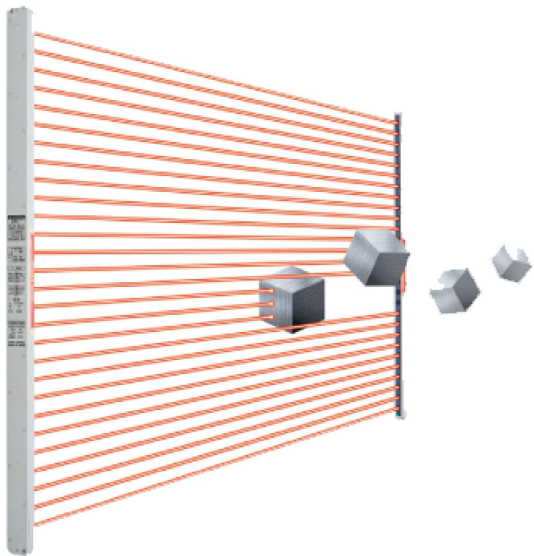
Particular Use Sensors

Sensor Options

Wire-Saving Systems

Configuration examples of IO-Link compatible devices

NA2-N20-PN | General Purpose & Slim Body Area Sensor NA2-N



*Photo may vary from actual product.

RoHS compliant

?

Product Number	NA2-N20-PN
Part Number	NA2-N20-PN
Product	General Purpose & Slim Body Area Sensor



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Technical Inquiries,
Purchase Support &
Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Details

PNP output

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Catalog/
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CAD

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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-N20-PN
Part Number	NA2-N20-PN
Products Name	General Purpose & Slim Body Area Sensor
Product details	PNP output
The price of the product	Please contact our office




Item		Specifications
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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	1.0 W or less	
Power consumption:Emitter:Job indicator OFF	0.9 W or less	
Power consumption:Receiver:Job indicator ON	1.0 W or less	
Power consumption:Receiver:Job indicator OFF	0.9 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 (at 16 mA source current)	
Output:Utilization category	DC-12 or DC-1	



Item		Specifications
		Download
Catalog/ Datasheet	CAD	Manual
		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: Green LED (lights up when all beam channels are stably received) Job indicator: Red



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
		applied, selected by operation mode switch) * 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.
Interference prevention function		Incorporated
Test input (emission halt) function		Incorporated
Pollution degree		3 (Industrial environment)
Protection		IP40(IEC)
Ambient temperature		-10 to +55 degrees +14 to +131 degrees Fahrenheit (No dew condensation or icing allowed), Storage: -10 to +60 degrees +14 to +140 degrees Fahrenheit
Ambient humidity		35 to 85 % RH, Storage: 35 to 85 % RH
Ambient illuminance		Incandescent 3,000 lx or les: 



Item		Specifications
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Voltage withstandability		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 ² 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 from production in March, 2017.)
Material		Enclosure: Heat-resistant ABS Lens cover:



Item		Specifications
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Catalog/ Datasheet	CAD	Manual
Cable	0.2 mm2 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 mm2, or more, cable.	
Weight(Total weight of emitter and receiver)	Net weight: 500 g approx. Gross weight: 700 g approx.	

Accessories (Option)

	Product number	Part number	Product	D
No image	MS-NA1-1	MS-NA1-1	-	-
No image	MS-NA2-1	MS-NA2-1	-	-
No image	MS-NA3-N20	MS-NA3-N20	-	-



	Product number	Part number	Product	D.
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Recently checked products

Recently checked product numbers

- NA2-N20 | General Purpose & Slim Body
Area Sensor NA2-N >
- NA2-N16-PN | General Purpose & Slim
Body Area Sensor NA2-N >
- NA2-N16 | General Purpose & Slim Body
Area Sensor NA2-N >
- NA2-N12-PN | General Purpose & Slim
Body Area Sensor NA2-N >
- NA2-N12 | General Purpose & Slim Body
Area Sensor NA2-N >

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Catalog/Datasheet

Technical Support

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CADManual

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

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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 /
ntimeters

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

Motors for FA & Industrial Application

AC Servo
Motors for HVAC & Automotive



Transparent
Conductive Film

Cooling Fan

Light Curtains /
Safety
Components

Area Sensors

Inductive
Proximity
Sensors

Particular Use
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