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Sensors

Area Sensors >

General Purpose & Slim Body Area Sensor NA2-N >

NA2-N8-PN

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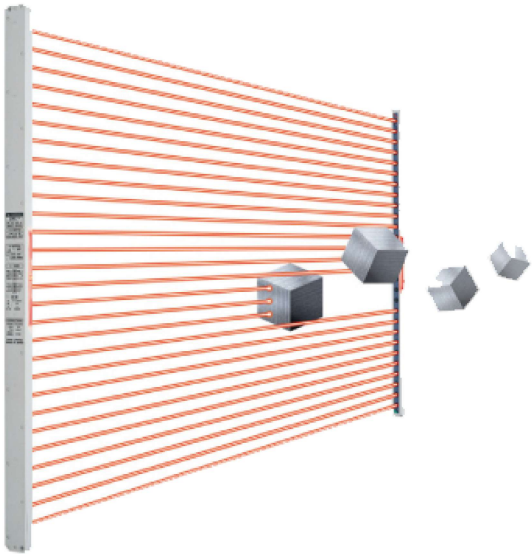
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NA2-N8-PN | General Purpose & Slim Body Area Sensor NA2-N

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Catalog/
Datasheet CAD Manual



*Photo may vary from actual product.



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Contact Us

Technical Inquiries,
Purchase Support &
Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Product Number	NA2-N8-PN
Part Number	NA2-N8-PN
Product	General Purpose & Slim Body Area Sensor
Details	PNP output
Product Name	General Purpose & Slim Body Area Sensor NA2-N

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-N8-PN
Part Number	NA2-N8-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	140 mm 5.512 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	0.7 W or less
Power consumption:Emitter:Job indicator OFF	0.6 W or less
Power consumption:Receiver:Job indicator ON	0.7 W or less
Power consumption:Receiver:Job indicator OFF	0.6 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 +14 to +131 degrees Fahrenheit (No dew condensation or icing allowed), 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 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



Item	Specifications
	from production in March, 2017.)
Material	Enclosure: Heat-resistant ABS Lens cover: Polyester Indicator cover: Acrylic
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: 350 g approx. Gross weight: 550 g approx.

Accessories (Option)

	Product number	Part number	Product	D
	MS-NA1-1	MS-NA1-1	-	-
	MS-NA2-1	MS-NA2-1	-	-



	Product number	Part number	Product	Discontinued
	MS-NA3-N8	MS-NA3-N8	-	-
	OS-NA2-N8	OS-NA2-N8	-	-

Recently checked products

Recently checked product numbers

- NA2-N8 | General Purpose & Slim Body Area Sensor NA2-N >
- NA2-N28-PN | General Purpose & Slim Body Area Sensor NA2-N >
- NA2-N28 | General Purpose & Slim Body Area Sensor NA2-N >
- NA2-N24-PN | General Purpose & Slim Body Area Sensor NA2-N >
- NA2-N24 | General Purpose & Slim Body Area Sensor NA2-N >

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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
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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	Light Curtains /	Human	Energy
Conductive Film	Safety	Machine	Management
Cooling Fan	Components	Interface	Solutions
	Area Sensors	Pressure	
	Inductive	Sensors / Flow	
	Proximity	Sensors	
	Sensors	Measurement	
	Particular Use	Sensors	
	Sensors		

