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Sensors

Area Sensors >

General Purpose & Slim Body Area Sensor NA2-N

NA2-N24

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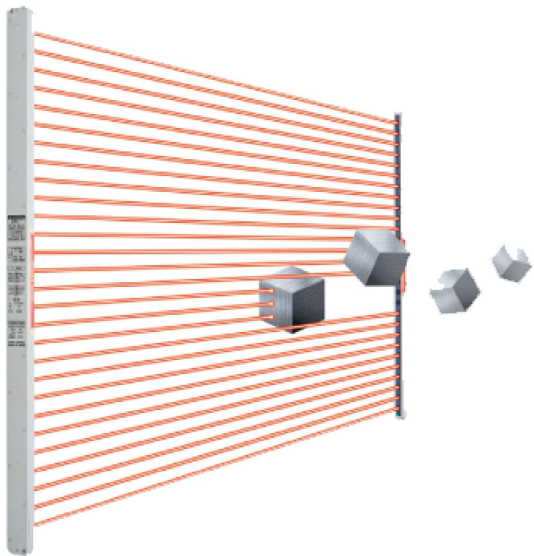
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NA2-N24 | General Purpose & Slim Body Area Sensor NA2-N



\*Photo may vary from actual product.

RoHS compliant ?

|                |                                         |
|----------------|-----------------------------------------|
| Product Number | NA2-N24                                 |
| Part Number    | NA2-N24                                 |
| Product        | General Purpose & Slim Body Area Sensor |



Contact Us

Technical Inquiries,  
Purchase Support &  
Additional Assistance

Technical inquiry

Business inquiry

Other inquiry

Details

NPN output

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Catalog/  
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CAD

Manual

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Technical inquiry

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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-N24                                       |
| Part Number              | NA2-N24                                       |
| Products Name            | General Purpose &<br>Slim Body Area<br>Sensor |
| Product details          | NPN output                                    |
| The price of the product | Please contact our<br>office                  |




| Item                                            |            | Specifications                                                                                                                                                                                                                                              |
|-------------------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                 |            | Download                                                                                                                                                                                                                                                    |
| <b>Catalog/<br/>Datasheet</b>                   | <b>CAD</b> | <b>Manual</b>                                                                                                                                                                                                                                               |
| Beam pitch                                      |            | 20 mm 0.787 in                                                                                                                                                                                                                                              |
| Sensing object                                  |            | dia. 30 mm dia.<br>1.181 in or more<br>opaque object<br>(completely beam<br>interrupted<br>objects)                                                                                                                                                         |
| Supply voltage                                  |            | 12 to 24 V DC plus<br>or minus 10 %<br>Ripple P-P 10 % or<br>less                                                                                                                                                                                           |
| Power consumption:Emitter:Job<br>indicator ON   |            | 1.1 W or less                                                                                                                                                                                                                                               |
| Power consumption:Emitter:Job<br>indicator OFF  |            | 1.0 W or less                                                                                                                                                                                                                                               |
| Power consumption:Receiver:Job<br>indicator ON  |            | 1.1 W or less                                                                                                                                                                                                                                               |
| Power consumption:Receiver:Job<br>indicator OFF |            | 1.0 W or less                                                                                                                                                                                                                                               |
| Output                                          |            | NPN open-<br>collector transistor<br>- Maximum sink<br>current: 100 mA<br>- Applied voltage:<br>30 V DC or less<br>(between output<br>and 0 V)<br>- Residual voltage:<br>2 V or less (at 100<br>mA sink current), 1<br>V or less (at 16 mA<br>sink current) |
| Output:Utilization category                     |            | DC-12 or DC-13                                                                                                                                                                                                                                              |



| Item                            |     | Specifications                                                                                                                                                                                                                                                                             |
|---------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 |     | Download                                                                                                                                                                                                                                                                                   |
| Catalog/<br>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)<br>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)<br>Stable incident beam indicator: Green LED (lights up when all beam channels are stably received)<br>Job indicator: Red                                                                          |



| Item                                |     | Specifications                                                                                                                                                                                                                                                  |
|-------------------------------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                     |     | Download                                                                                                                                                                                                                                                        |
| Catalog/<br>Datasheet               | CAD | Manual                                                                                                                                                                                                                                                          |
|                                     |     | applied, selected by operation mode switch)<br>* 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<br>+14 to +131 degrees Fahrenheit (No dew condensation or icing allowed),<br>Storage: -10 to +60 degrees +14 to +140 degrees Fahrenheit                                                                                                      |
| Ambient humidity                    |     | 35 to 85 % RH,<br>Storage: 35 to 85 % RH                                                                                                                                                                                                                        |
| Ambient illuminance                 |     | Incandescent 3,000 lx or less:                                                                                                                                             |



| Item                     |     | Specifications                                                                                                                                         |
|--------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|                          |     | Download                                                                                                                                               |
| Catalog/<br>Datasheet    | CAD | Manual                                                                                                                                                 |
| 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 <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 from production in March, 2017.) |
| Material                 |     | Enclosure: Heat-resistant ABS<br>Lens cover:                                                                                                           |



| Item                                            |                                                                                                                                 | Specifications |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|----------------|
| Download                                        |                                                                                                                                 |                |
| Catalog/<br>Datasheet                           | CAD                                                                                                                             | Manual         |
| Cable                                           | 0.2 mm2 4-core<br>cabtyre cable, 3 m<br>9.843 ft long                                                                           |                |
| Cable extension                                 | Extension up to<br>total 25 m 82.021<br>ft is possible for<br>both emitter and<br>receiver, with 0.2<br>mm2, or more,<br>cable. |                |
| Weight(Total weight of emitter and<br>receiver) | Net weight: 570 g<br>approx.<br>Gross weight: 750<br>g approx.                                                                  |                |

Accessories (Option)

|          | Product number             | Part number | Product | D |
|----------|----------------------------|-------------|---------|---|
| No image | <a href="#">MS-NA1-1</a>   | MS-NA1-1    | -       | - |
| No image | <a href="#">MS-NA2-1</a>   | MS-NA2-1    | -       | - |
| No image | <a href="#">MS-NA3-N24</a> | MS-NA3-N24  | -       | - |



|                       |                |             |         |    |
|-----------------------|----------------|-------------|---------|----|
|                       | Product number | Part number | Product | D. |
| Download              |                |             |         |    |
| Catalog/<br>Datasheet | CAD            | Manual      |         |    |
|                       |                |             |         |    |

Recently checked products

Recently checked product numbers

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

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Control Components & Electronic Device Products Technical Support

Relays, Couplers, Connectors, Switches, and Other Control Components & Electronic Device Products

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Catalog/Datasheet

Technical Support

FA Sensors, PLC ,Eco Power Meters, Times, Counters, Limit Switches and Other FA Sensors & Components

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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  | FA Sensors & Components               |                                              |                                 | Motors for FA & Industrial Application       |
|-----------------------|---------------------------------------|----------------------------------------------|---------------------------------|----------------------------------------------|
| Relays / Couplers     | Fiber Sensors                         | Sensor Options                               | Static Control Devices          | AC Servo<br><br>Motors for HVAC & Automotive |
| Connectors            | Photoelectric Sensors / Laser Sensors | Wire-Saving Systems                          | Laser Markers / 2D Code Readers |                                              |
| Switches              | Micro Photoelectric Sensors           | Programmable Controllers / Motion Controller | Machine Vision System           |                                              |
| Encoders / Antimeters |                                       |                                              |                                 |                                              |



Transparent  
Conductive Film  
  
Cooling Fan

Light Curtains /  
Safety  
Components  
  
Area Sensors  
  
Inductive  
Proximity  
Sensors  
  
Particular Use  
Sensors

Human  
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Measurement  
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