Compact Multi-voltage Photoelectric Sensor

**NX5 SERIES**

Related Information
- General terms and conditions .......... F-7
- Sensor selection guide ................. P.271~
- Glossary of terms / General precautions .... P.1455~ / P.1458~
- China’s CCC mark ...................... P.1505

Multi-voltage photoelectric sensor usable worldwide

**Multi-voltage**
The NX5 series can operate at 24 to 240 V AC or 12 to 240 V DC, which is suitable for supply voltages around the world.

**Compact size**
Despite of being multi-voltage, it has a depth of just 35 mm 1.378 in.
(W18 × H62 × D35 mm W0.709 × H2.441 × D1.378 in)

No need to arrange a DC power supply.

**BASIC PERFORMANCE**

**Long sensing range**
It is most suitable for conveyor lines and parking lot applications.

**Thru-beam**
10 m 32.808 ft (Red LED)
30 m 98.425 ft (Infrared LED)

**Retroreflective**
5 m 16.404 ft (Red LED with polarizing filters)
7 m 22.966 ft (Infrared LED)

**Diffuse reflective**
700 mm 27.559 in (Infrared LED)

**High reliability**
It has an IP66 protection. Moderate dust or water splashes will not affect the sensor. The hermetically sealed output relay significantly increases its reliability.

**Hermetically sealed relay eliminates worries about bad contact**

**FUNCTIONS / MOUNTING**

**Easy alignment**
The 10 m 32.808 ft thru-beam type sensor and the 5 m 16.404 ft retroreflective type sensor incorporate a red LED beam source. Beam alignment can be attained by checking the emitted beam visually.

**Interference prevention**
Two sensors can operate normally even if mounted close together.
(Excluding the 30 m 98.425 ft thru-beam type sensor)
## APPLICATIONS

Detecting car position at parking garage

Detecting objects on conveyor line

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### ORDER GUIDE

<table>
<thead>
<tr>
<th>Type</th>
<th>Appearance</th>
<th>Sensing range</th>
<th>Model No. (Note 2, 3)</th>
<th>Emitting element</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thru-beam</td>
<td></td>
<td>10 m 32.808 ft</td>
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<td>Infrared LED</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>700 mm 27.559 in</td>
<td>NX5-D700A</td>
<td>Infrared LED</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Mounting bracket is not supplied with the sensor. Please select from the range of optional sensor mounting brackets (three types).

Notes:
1) The sensing range of the retroreflective type sensor is specified for the RF-230 reflector. Further, the sensing range is the possible setting range for the reflector. The sensor can detect an object less than 0.1 m 0.328 ft away.
2) The model No. with “P” shown on the label affixed to the thru-beam type sensor is the emitter, “D” shown on the label is the receiver.
3) Light-ON type sensor (model No. with suffix “A”) and Dark-ON type sensor (model No. with suffix “B”) are available in the NX5 series. For the following models, in case of power off, the output relay condition is the same as when an object is detected. (In case of power supply line disconnection, the output operation is the same as when an object is detected.) Refer to "I/O CIRCUIT DIAGRAM AND OUTPUT OPERATION (p.405)" for the output operation of each model.

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### 5 m 16.404 ft cable length type

5 m 16.404 ft cable length type (standard: 2 m 6.562 ft) is also available. When ordering this type, suffix “-C5” to the model No. (e.g.) 5 m 16.404 ft cable length type of NX5-M10RA is “NX5-M10RA-C5”.

### Accessory

- RF-230 (Reflector)

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### Table of Applications

<table>
<thead>
<tr>
<th>Application</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>Detecting car position at parking garage</td>
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<tr>
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### Table of Models

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- RF-230 (Reflector)

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### Accessory

- RF-230 (Reflector)
### OPTIONS

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<tr>
<th>Designation</th>
<th>Model No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensor mounting bracket</td>
<td>MS-NX5-1</td>
<td>Foot angled mounting bracket (The thru-beam type sensor needs two brackets.)</td>
</tr>
<tr>
<td></td>
<td>MS-NX5-2</td>
<td>Foot biangled mounting bracket (sensor protection bracket) (The thru-beam type sensor needs two brackets.)</td>
</tr>
<tr>
<td></td>
<td>MS-NX5-3</td>
<td>Back angled mounting bracket (The thru-beam type sensor needs two brackets.)</td>
</tr>
<tr>
<td>Slit mask</td>
<td>OS-NX5-3×6</td>
<td>Sensing range: 3 m 9.843 ft [NX5-M10R□] 16 m 52.493 ft [NX5-M40□] Min. sensing object: ø10 mm ø0.394 in [NX5-M10R□] ø20 mm ø0.787 in [NX5-M30□]</td>
</tr>
<tr>
<td>Interference prevention filter</td>
<td>PF-NX5-V</td>
<td>Sensing range: 5 m 16.404 ft Min. sensing object: ø20 mm ø0.787 in (One set consists of 2 pcs. of interference prevention filters.)</td>
</tr>
<tr>
<td></td>
<td>PF-NX5-H</td>
<td>Sensing range: 1 m 3.281 ft [NX5-M10R□] 6 m 19.685 ft [NX5-M30□] Min. sensing object: 3 × 6 mm 0.118 × 0.236 in</td>
</tr>
<tr>
<td>Reflector</td>
<td>MS-RF21-1</td>
<td>Protective mounting bracket for RF-210. It protects the reflector from damage and maintains alignment.</td>
</tr>
<tr>
<td></td>
<td>MS-RF22</td>
<td>For RF-220</td>
</tr>
<tr>
<td></td>
<td>MS-RF23</td>
<td>For RF-230</td>
</tr>
<tr>
<td>Reflective tape</td>
<td>RF-11</td>
<td>Ambient temperature: -25 to +50 °C -13 to +122 °F Ambient humidity: 35 to 85 % RH Notes: Keep the tape free from stress. If it is pressed too much, its capability may deteriorate. Do not cut the tape. It will deteriorate the sensing performance.</td>
</tr>
<tr>
<td></td>
<td>RF-12</td>
<td>Sensing range: 0.1 to 1.5 m 0.328 to 4.921 ft [NX5-PRVM5□] 0.1 to 2.5 m 0.328 to 8.202 ft [NX5-RM7□] Min. sensing object: ø30 mm ø1.181 in</td>
</tr>
<tr>
<td>Sensor checker</td>
<td>CHX-SC2</td>
<td>It is useful for beam alignment of thru-beam type sensors. The optimum receiver position is given by indicators, as well as an audio signal.</td>
</tr>
</tbody>
</table>

**Sensor mounting bracket**

- **MS-NX5-1**
  - Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.

- **MS-NX5-2**
  - Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.

- **MS-NX5-3**
  - Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.

**Slit mask**

- **OS-NX5-3×6**
  - Fitted on the front of the sensor with one touch.

**Interference prevention filter**

- **PF-NX5-V** (Vertical, Silver)
  - For NX5-M10RA or NX5-M10RB

- **PF-NX5-H** (Horizontal, Light brown)
  - For NX5-M10RA or NX5-M10RB

**Notes**

- Refer to p.980 for details of the sensor checker CHX-SC2.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Thru-beam</th>
<th>Retroreflective</th>
<th>Diffuse reflective</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Long sensing range</td>
<td>With polarizing filters</td>
<td>Long sensing range</td>
</tr>
<tr>
<td>Model No.</td>
<td>NX5-M10RA</td>
<td>NX5-M10RB</td>
<td>NX5-M10RA</td>
</tr>
<tr>
<td>Sensing range</td>
<td>10 m</td>
<td>30 m</td>
<td>30 m</td>
</tr>
<tr>
<td>Lighting range</td>
<td>32.808 ft</td>
<td>96.425 ft</td>
<td>30 m</td>
</tr>
<tr>
<td>Sensing object</td>
<td>ø20 mm</td>
<td>cz. 1.078 in or more opaque object (Note 4)</td>
<td>cz. 1.085 in or more opaque object (Note 5)</td>
</tr>
<tr>
<td>Hysteresis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repeatability (perpendicular to sensing axis)</td>
<td>0.1 mm 0.004 in or less</td>
<td>0.2 mm 0.008 in or less</td>
<td>0.3 mm 0.012 in or less</td>
</tr>
<tr>
<td>Supply voltage</td>
<td>24 to 240 V AC</td>
<td>24 to 240 V DC</td>
<td>24 to 240 V AC</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Emitter: 1 VA or less</td>
<td>Emitter: 1.5 VA or less</td>
<td>2 VA or less</td>
</tr>
<tr>
<td></td>
<td>Receiver: 2 VA or less</td>
<td>Receiver: 2 VA or less</td>
<td></td>
</tr>
<tr>
<td>Output</td>
<td>Relay contact 1 c</td>
<td>Red LED (lights up when the power is ON)</td>
<td>Incorporate (Two units of sensors can be mounted close together)</td>
</tr>
<tr>
<td></td>
<td>• Switching capacity: 250 V AC 1 A (resistive load)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Electrical life: 50,000 or more switching operations (switching frequency 3,600 operations/hour)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Mechanical life: 100 million or more switching operations (switching frequency 3,600 operations/hour)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response time</td>
<td>10 ms or less</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operation indicator</td>
<td>Red LED (lights up when the output is ON)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stability indicator</td>
<td>Green LED (lights up under stable light received condition or stable dark condition)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power indicator</td>
<td>Continuous variable adjuster</td>
<td>Continuous variable adjuster</td>
<td>Continuous variable adjuster</td>
</tr>
<tr>
<td>Sensitivity adjuster</td>
<td>Continuous variable adjuster</td>
<td>Continuous variable adjuster</td>
<td>Continuous variable adjuster</td>
</tr>
<tr>
<td>Automatic interference prevention function</td>
<td>Use optional interference prevention filters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pollution degree</td>
<td>3 (Industrial environment)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protection</td>
<td>IP66 (IEC)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>–20 to +55 °C</td>
<td>–20 to +131 °F (Note 4)</td>
<td>–20 to +131 °F (Note 6)</td>
</tr>
<tr>
<td>Ambient humidity</td>
<td>35 to 85 % RH</td>
<td>Storage: –30 to +70 °C</td>
<td>Storage: –30 to +70 °C</td>
</tr>
<tr>
<td>Ambient illuminance</td>
<td>Incandescent light: 3,500 lx at the light-receiving face</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EMC</td>
<td>EN 61000-6-2, EN 61000-6-4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage withstandability</td>
<td>1,500 V AC for one min.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>20 MΩ, or more, with 500 V DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vibration resistance</td>
<td>10 to 55 Hz frequency, 1.5 mm 0.005 in amplitude in X, Y and Z directions for two hours (Note 6)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shock resistance</td>
<td>500 m/s (50 G approx.) in X, Y and Z directions for three times each</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emitting element</td>
<td>Red LED (modulated)</td>
<td>Infrared LED (modulated)</td>
<td>Infrared LED (modulated)</td>
</tr>
<tr>
<td>Peak emission wavelength</td>
<td>660 nm 0.026 mil</td>
<td>880 nm 0.035 mil</td>
<td>880 nm 0.035 mil</td>
</tr>
<tr>
<td>Material</td>
<td>Enclosure: Polycarbonate, Lens: Polycarbonate, Cover: Polycarbonate, Front cover (retroreflective type sensor only): Acrylic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable</td>
<td>0.3 mm² 5-core (thru-beam type emitter: 2-core) cathode cable, 2 m 6.562 ft long</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable extension</td>
<td>Extension up to total 100 m 328.064 ft is possible with 0.3 mm², or more, cable (thru-beam type: both emitter and receiver)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net weight</td>
<td>Emitter: 100 g approx.</td>
<td>Emitter: 125 g approx.</td>
<td>140 g approx.</td>
</tr>
<tr>
<td></td>
<td>Receiver: 140 g approx.</td>
<td>Receiver: 140 g approx.</td>
<td></td>
</tr>
<tr>
<td>Accessories</td>
<td>Adjusting screwdriver: 1 pc.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C ± 3.4 °F.
2) The sensing range and the sensing object of the retroreflective type sensor is specified for the RF-230 reflector. Further, the sensing range is the possible setting range for the reflector.
3) The sensor can detect an object less than 0.1 m 0.328 ft away.
4) If slit masks (optional) are fitted, an object as small as 3 × 6 mm 0.118 × 0.236 in can be detected.
5) Make sure to confirm detection with an actual sensor before use.
6) In case the sensor is to be used at an ambient temperature of –15 °C ± 5 °F, or less, please contact our office.
### I/O CIRCUIT DIAGRAM AND OUTPUT OPERATION

#### Output operation

<table>
<thead>
<tr>
<th>Sensing mode</th>
<th>Thru-beam &amp; Retroreflective type</th>
<th>Diffuse reflective type</th>
</tr>
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<tr>
<td></td>
<td>Light-ON (A) type</td>
<td>Dark-ON (B) type</td>
</tr>
<tr>
<td>Output condition</td>
<td>NO (Black cable)</td>
<td>NC (Gray cable)</td>
</tr>
<tr>
<td>Beam-received</td>
<td>Open</td>
<td>Close</td>
</tr>
<tr>
<td>Beam-interrupted</td>
<td>Close</td>
<td>Open</td>
</tr>
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#### I/O CIRCUIT DIAGRAM

- **Power Supply**
- **Amplifier**
- **Built-in Amplifier**
- **Multi-voltage circuit**
- **Output relay**
- **Internal circuit**

**Color code**
- Brown 
- Blue 
- Black 
- Gray 
- White

**Supply voltage**
- 24 to 240 V AC +10% to -15%
- 12 to 240 V DC +10% to -15%

**Note:** The emitter of the thru-beam type sensor has two wires for power (+V and 0 V) only.

#### SENSING CHARACTERISTICS (TYPICAL)

### NX5-M10RA NX5-M10RB

**Thru-beam type**

- **Parallel deviation**
- **Angular deviation**
- **Parallel deviation with slit masks (3 × 6 mm 0.118 × 0.236 in)**

### NX5-M30A NX5-M30B

**Thru-beam type**

- **Parallel deviation**
- **Angular deviation**
- **Parallel deviation with slit masks (3 × 6 mm 0.118 × 0.236 in)**
**SENSING CHARACTERISTICS (TYPICAL)**

**NX5-PRVM5A  NX5-PRVM5B**  
Retroreflective type

**NX5-RM7A  NX5-RM7B**  
Retroreflective type

**NX5-D700A  NX5-D700B**  
Diffuse reflective type

**SENSING CHARACTERISTICS (TYPICAL)**

- **NX5-PRVM5A  NX5-PRVM5B**
  - **Parallel deviation**
  - **Angular deviation**

- **NX5-RM7A  NX5-RM7B**
  - **Parallel deviation**
  - **Angular deviation**

- **NX5-D700A  NX5-D700B**
  - **Sensing field**
  - **Correlation between sensing object size and sensing range**

As the sensing object size becomes smaller than the standard size (white non-glossy paper: 200 × 200 mm: 7.874 × 7.874 in), the sensing range shortens, as shown in the left graph.

For plotting the left graph, the sensitivity has been set such that a 200 × 200 mm 7.874 × 7.874 in white non-glossy paper is just detectable at a distance of 700 mm 27.559 in.

**PRECAUTIONS FOR PROPER USE**

- **Never use this product as a sensing device for personnel protection.**
- **In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.**

**Mounting**

- **The tightening torque should be 0.8 N·m or less.**

**Others**

- **Do not use during the initial transient time (50 ms) after the power supply is switched on.**
- **Although the protection degree is specified for the sensor including the cable, the cable end is not waterproof, and is not covered by the protection specified. Hence, make sure that water does not seep in from the cable end.**

**Interference prevention filter (Exclusively for NX5-M10R□)***

- **Use the interference prevention filters (optional) when two units of thru-beam type sensors are mounted close together. However, take note that the sensing range will become short.**
- **There are 2 types of interference prevention filters. Install PF-NX5-H (Horizontal, Light brown) for 1 set, and install PF-NX5-V (Vertical, Silver color) for the other set.**

Note: The filters cannot be used for NX5-M30A or NX5-M30B.
## PRECAUTIONS FOR PROPER USE

### Retroreflective type sensor (NX5-RM7□)
- Please take care of the following points when detecting materials having a gloss.
  1. Make L, shown in the diagram, sufficiently long.
  2. Install at an angle of 10 to 30 degrees to the sensing object.

*NX5-PRVM□ does not need the above adjustment.

### Retroreflective type sensor with polarizing filters (NX5-PRVM□)
- If a shiny object is covered or wrapped with a transparent film, such as those described below, the retroreflective type sensor with polarizing filters may not be able to detect it.
  - Can wrapped by clear film
  - Aluminum sheet covered by plastic film
  - Gold or silver color (specular) label or wrapping paper

### Example of sensing objects
- Can wrapped by clear film
- Aluminum sheet covered by plastic film
- Gold or silver color (specular) label or wrapping paper

### Steps
- Tilt the sensor with respect to the sensing object while fitting.
- Reduce the sensitivity.
- Increase the distance between the sensor and the sensing object.

The CAD data in the dimensions can be downloaded from our website.

## DIMENSIONS (Unit: mm in)

### NX5-M10RA  NX5-M10RB  NX5-M30A  NX5-M30B  Sensor

<table>
<thead>
<tr>
<th>Beam axis</th>
<th>Stability indicator (Green) (Note 3)</th>
<th>Operation indicator (Red) (Note 1, 3)</th>
<th>Sensitivity adjuster (Note 2, 3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.5</td>
<td>0.807</td>
<td>62</td>
<td>50</td>
</tr>
<tr>
<td>0.787</td>
<td>0.157</td>
<td>2.441</td>
<td>1.984</td>
</tr>
<tr>
<td>18</td>
<td>0.709</td>
<td>35</td>
<td>0.197</td>
</tr>
<tr>
<td>0.197</td>
<td>0.709</td>
<td>18</td>
<td>2.441</td>
</tr>
<tr>
<td>2-M4 nut seats (on both sides)</td>
<td>2-ø4.5 ø0.177 mounting holes</td>
<td>2-M4 nut seats (on both sides)</td>
<td>ø5.8 ø0.228 cable, 2 m 6.562 ft long</td>
</tr>
</tbody>
</table>

**Notes:**
1. It is the power indicator (red) on the emitter of NX5-M30□
2. Not incorporated on NX5-M30□
3. Not incorporated on the emitter.

### NX5-D700A  NX5-D700B  Sensor

<table>
<thead>
<tr>
<th>Beam axis</th>
<th>Stability indicator (Green)</th>
<th>Operation indicator (Red)</th>
<th>Sensitivity adjuster (Note)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20.5</td>
<td>0.807</td>
<td>62</td>
<td>50</td>
</tr>
<tr>
<td>0.807</td>
<td>0.157</td>
<td>2.441</td>
<td>1.969</td>
</tr>
<tr>
<td>18</td>
<td>0.709</td>
<td>35</td>
<td>0.236</td>
</tr>
<tr>
<td>0.709</td>
<td>0.197</td>
<td>18</td>
<td>2.441</td>
</tr>
<tr>
<td>2-M4 nut seats (on both sides)</td>
<td>2-ø4.5 ø0.177 mounting holes</td>
<td>2-ø4.5 ø0.177 mounting holes</td>
<td>ø5.8 ø0.228 cable, 2 m 6.562 ft long</td>
</tr>
</tbody>
</table>

**Note:** Not incorporated on NX5-RM7□
**DIMENSIONS (Unit: mm in)**

**RF-230**  
**Reflector (Accessory for the retroreflective type sensor)**

Material: Acrylic (Reflector)  
ABS (Base)

2-ø4.6 ø0.181 mounting holes

**RF-200**  
**Reflector (Optional)**

Material: Acrylic (Reflector)  
ABS (Base)

2-ø3.6 ø0.142 mounting holes

**RF-210**  
**Reflector (Optional)**

Material: Acrylic (Reflector)  
ABS (Base)

Two M3 (length 8 mm 0.315 in) screws with washers and two nuts are attached.

**Reflector**

M3 nut mounting holes  
(for mounting at the back)

**Base**

2-ø3.4 ø0.134 thru-holes  
(for mounting at the side)

2-ø3.4 ø0.134 holes,  
0.026 deep  
(for mounting at the back)

2-M3 nut mounting holes  
(for mounting at the side)

**RF-11**  
**Reflective tape (Optional)**

Material: Acrylic

Effective reflecting surface  
Adhesive tape

**RF-12**  
**Reflective tape (Optional)**

Material: Flexible polyvinyl chloride

The CAD data in the dimensions can be downloaded from our website.
### DIMENSIONS (Unit: mm in)

**MS-NX5-1**

Sensor mounting bracket (Optional)

**Assembly dimensions**

Mounting drawing with the receiver of NX5-M10R□

- **Material:** Cold rolled carbon steel (SPCC) (Uni-chrome plated)
- Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.

**MS-NX5-2**

Sensor mounting bracket (Optional)

**Assembly dimensions**

Mounting drawing with the receiver of NX5-M10R□

- **Material:** Cold rolled carbon steel (SPCC) (Uni-chrome plated)
- Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.

**MS-NX5-3**

Sensor mounting bracket (Optional)

**Assembly dimensions**

Mounting drawing with the receiver of NX5-M10R□

- **Material:** Cold rolled carbon steel (SPCC) (Uni-chrome plated)
- Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.

The CAD data in the dimensions can be downloaded from our website.

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**Material:** Cold rolled carbon steel (SPCC) (Uni-chrome plated)

Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.
Compact Multi-voltage Photoelectric Sensor NX5 SERIES

FIBER SENSORS
LASER SENSORS
PHOTOELCTRIC SENSORS
MICRO PHOTOELCTRIC SENSORS
AREA SENSORS
CUT OPT (ART)
PRESSURE SENSORS
INDUCTIVE PROX. SENSORS
PARTICULAR USE SENSORS
SENSOR OPTIONS
SIMPLE W. SAV. UNITS
WIRE-SAVING SYSTEMS
MEASURE. MEASUREMENT SENSORS
LASER MARKERS
PLC
HUMAN MACH. INTERFACES
ENERGY CONSUMPTION
VISUALIZATION COMPONENTS
FA COMPONENTS
MACHINE VISION
UV CURING SYSTEMS

The CAD data in the dimensions can be downloaded from our website.

DIMENSIONS (Unit: mm in)

MS-RF21-1  Reflector mounting bracket for RF-210 (Optional)

Assembly dimensions

Material: Stainless steel (SPCC)
Two M3 (length 12 mm 0.472 in) screws with washers are attached.

MS-RF22  Reflector mounting bracket for RF-220 (Optional)

Assembly dimensions

Material: Cold rolled carbon steel (SPCC)
(Uni-chrome plated)
Two M3 (length 8 mm 0.315 in) screws with washers are attached.

MS-RF23  Reflector mounting bracket for RF-230 (Optional)

Assembly dimensions

Material: Cold rolled carbon steel (SPCC)
(Uni-chrome plated)
Two M4 (length 10 mm 0.394 in) screws with washers are attached.