NX5 SERIES

Compact Multi-voltage Photoelectric Sensor Power Supply Built-in



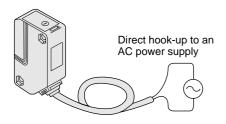


Multi-voltage photoelectric sensor usable worldwide



Multi-voltage

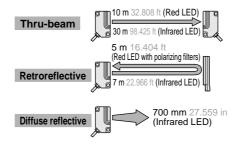
The NX5 series can operate at 24 to 240 V AC or 12 to 240 V DC, which makes it suitable for supply voltages all over the world.



No need to arrange a DC power supply.

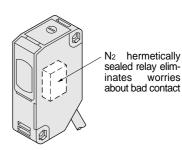
Long sensing range

Most suitable for conveyor lines and parking lot applications.



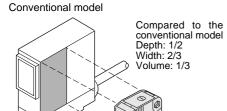
High reliability

It has IP66 protection. Moderate dust or water splashes do not affect it. The new N2 hermetically sealed output relay significantly increases its reliability.



Compact size

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



NX5

Easy alignment

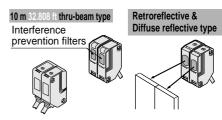
The 10 m 32.808 ft thru-beam type sensor and the 5 m 16.404 ft retroreflective type sensor incorporate a red LED beam source.

Beam alignment can be attained by visually checking the emitted beam.



Interference prevention

Two sensors operate quite normally even if mounted close together. Excluding the 30 m 98.425 ft thrubeam type sensor



Interference prevention filters are available. (Optional)

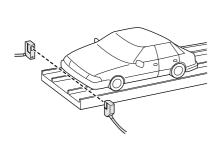
Incorporate automatic interference prevention function.

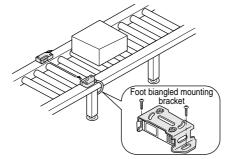
APPLICATIONS

Detecting car position at parking garage

Detecting workpieces on conveyor line

Detecting golf balls





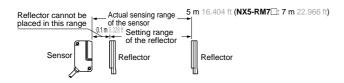


ORDER GUIDE

Туре	Appearance	Appearance Sensing range		Emitting element	Output	
Light-		10 m 32.808 ft	NX5-M10RA	Red LED	Relay contact 1c	
Thru-beam sing ght- Dark-		10 III 02.000 K	NX5-M10RB	NGG EED		
. 9 10		30 m	NX5-M30A	Infrared LED		
		98.425 ft	NX5-M30B	illiared EED		
flective With polarizing filters Dark- Light- ON		0.1 to 5 m 0.328 to 16.404 ft	NX5-PRVM5A	Red LED		
Retroreflective ensing With pol filters Light- Dark-ON		(Note 1)	NX5-PRVM5B	Ned LLD		
Retrore sensing		0.1 to 7 m 0.328 to 22.966	NX5-RM7A	Infrared LED		
Long serange Dark-ON		[(Note 1)	NX5-RM7B	IIIIIaieu LLD		
Diffuse reflective ark- Light-		700 mm 27.559 in	NX5-D700A	Infrared LED		
Diffu reflec Dark- ON		700 11111 27.333 111	NX5-D700B	IIIII aled LED		

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) 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

Refer to p.362 for the output operation of each model.

Thru-beam type	Retroreflective type	Diffuse reflective type		
NX5-M10RA and NX5-M30A	NX5-PRVM5A and NX5-RM7A	NX5-D700B		
(Light-ON)	(Light-ON)	(Dark-ON)		

Accessory

· RF-230 (Reflector)



5 m 16.404 ft cable length type

5 m $16.404 \, \mathrm{ft}$ cable length type (standard: 2 m $6.562 \, \mathrm{ft}$) is also available.

· Table of Model Nos.

Table of Model 1403.							
Туре			Standard	5 m 16.404 ft cable length type			
		Light-ON	NX5-M10RA	NX5-M10RA-C5			
beam		Dark-ON	NX5-M10RB	NX5-M10RB-C5			
Thru-beam	Long sensing range	Light-ON	NX5-M30A	NX5-M30A-C5			
		Dark-ON	NX5-M30B	NX5-M30B-C5			
e <	With polarizing filters	Light-ON	NX5-PRVM5A	NX5-PRVM5A-C5			
Retroreflective		Dark-ON	NX5-PRVM5B	NX5-PRVM5B-C5			
	Long sensing range	Light-ON	NX5-RM7A	NX5-RM7A-C5			
		Dark-ON	NX5-RM7B	NX5-RM7B-C5			
Diffuse reflective		Light-ON	NX5-D700A	NX5-D700A-C5			
		Dark-ON	NX5-D700B	NX5-D700B-C5			

OPTIONS

Designation	gnation Model No. Description						
	MS-NX5-1	Foot angled mounting bracket (The thru-beam type sensor needs two brackets.)					
Sensor mounting bracket	MS-NX5-2	Foot biangled mounting bracket (sensor protection bracket) (The thru-beam type sensor needs two brackets.)					
	MS-NX5-3	Back angled mounting bracket (The thru-beam type sensor needs two brackets.)					
Slit mask / For thru-beam	OS-NX5-3 × 6 /Slit size 3 × 6 mm\	• Sensing range: 3 m 9.843 ft [NX5-M10R□] Slit on one side • Min. sensing object: • Min. sensing object: • 10 mm • 0.394 in					
type sensor only	0.118 × 0.236 in	Sensing range: 1 m 3.281 ft [NX5-M10R□] Slit on both sides 6 m 19.685 ft [NX5-M30□] • Min. sensing object: 3 × 6 mm 0.118 × 0.236 in					
Interference prevention filter / For NX5-M10RA	PF-NX5-V (Vertical)	Same type of filters on both sides • Sensing range: 5 m 16.404 ft					
or NX5-M10RB only	PF-NX5-H (Horizontal)	Min. sensing object: \$20 mm \$\phi0.787\$ in One set consists of 2 pcs. of interference prevention filters.					
Reflector / For retrore- \	RF-210	• 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:					
flective type sensor only	RF-220	Sensing range: 0.1 to 3.5m 0.328 to 11.483 ft [NX5-PRVM5□ 0.1 to 5m 0.328 to 16.404 ft [NX5-RM7□] Min. sensing object:					
Reflector	MS-RF21-1	Protective mounting bracket for RF-210 It protects the reflector from damage and maintains alignment.					
mounting bracket	MS-RF22	For RF-220					
	MS-RF23	For RF-230					
Reflective tape	RF-11	Ambient temperature: −25 to +50 °C −13 to +122 °F Ambient humidity: 35 to 85 % RH Notes: i) Keep the tape free from stress. If it is pressed too NX5-PRVM5□ 0.1 to 1 m 0.328 to 3.281 ft NX5-RM7□ (NX5-RM7□ (
flective type sensor only	RF-12	much, its capability may deteriorate. ii) Do not cut the tape. It will deteriorate the sensing performance. **Sensing range: 0.1 to 1 m 0.328 to 3.281 ft [NX5-PRVM5] 0.1 to 1.5 m 0.328 to 4.921 ft [NX5-RM7]					
Sensor checker (Note)	CHX-SC2	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.					

Note: Refer to p.414~ for details of the sensor checker CHX-SC2.

Reflector mounting bracket

Two M4 (length 10 mm 0.394 in)

screws with washers are attached.

• MS-RF23

· MS-RF22



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



• MS-RF21-1

Two M3 (length 12 mm 0.472 in)

Sensor mounting bracket

• MS-NX5-1







Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.



Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached.



Two M4 (length 25 mm washers and two M4 nuts are attached.

Slit mask • OS-NX5-3 × 6

Fitted on the front face of the sensor with onetouch.

Interference prevention filter

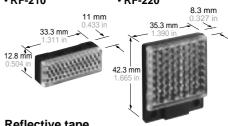
- PF-NX5-V
- PF-NX5-H

(For NX5-M10R□ only) Two sets of thru-beam type sensors (Red LED type) can be mounted close together.





Reflector • RF-210 • RF-220 11 mm 35.3 mm



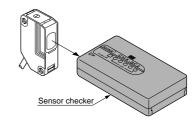
Reflective tape

• RF-11



Sensor checker

· CHX-SC2

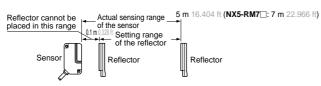


SPECIFICATIONS

		Thru-beam				Retroreflective						
Туре		Long sensing range			With polarizing filters Long sensing range			Diffuse reflective				
Item	n Model No.	NX5-M10RA	NX5-M10RB	NX5-M30A	NX5-M30B	NX5-PRVM5A	NX5-PRVM5B	NX5-RM7A	NX5-RM7B	NX5-D700A	NX5-D700B	
Sen	sing range	10 m 32	2.808 ft	30 m 98	3.425 ft	0.1 to 5 m 0.328 to		0.1 to 7 m 0.328 to	22.966 ft (Note 1)	700 mm 27.5	59 in (Note 2)	
Sensing object					\$\delta 50\$ mm \$\delta 1.969\$ in or more opaque, translucent or specular object (Note 1) \$\delta 50\$ mm \$\delta 1.969\$ in or more opaque or translucent object (Note 1)			Opaque, translucent or transparent object				
Hyst	teresis									15 % or less of operation distance		
Repeatability (perpendicular to sensing axis)		0.1 mm 0.004 in or less			0.2 mm 0.00	08 in or less			0.3 mm 0.012 in or less			
Sup	ply voltage			24 to 240 V	AC ± 10 % c	r 12 to 240 V	DC \pm 10 %	Ripple P-P	10 % or less			
Pow	ver consumption	Emitter: 1 V Receiver: 2		Emitter: 1.5 Receiver: 2				2 VA c	or less			
Output		Re	Relay contact 1 c • Switching capacity: 250 V AC 1 A (resistive load) 30 V DC 2 A (resistive load) • Electrical life: 500,000 or more switching operations (switching frequency 3,600 operations/hour) • Mechanical life: 100 million or more switching operations (switching frequency 36,000 operations/hour)									
	Output operation	Light-ON	Dark-ON	Light-ON	Dark-ON	Light-ON	Dark-ON	Light-ON	Dark-ON	Light-ON	Dark-ON	
Resp	ponse time		10 ms or less									
Ope	eration indicator	Red LED (lights up when the output is ON)										
Stab	pility indicator	Green LED (lights up under stable light received condition or stable dark condition)										
Power indicator				Red (lights up when t								
Sens	sitivity adjuster	Continuously va	riable adjuster	r ———		Continuously va	ariable adjuster			Continuously v	ariable adjuste	
Automatic interference prevention function		(Use optional interference) Incorporated (Two units of sensors can be mounted closed prevention filters					ınted close to	gether.)				
	Pollution degree	3 (Industrial environment)										
- L	Protection	IP66 (IEC)										
ance	Ambient temperature	$-20 \text{ to} + 55 ^{\circ}\text{C} - 4 \text{ to} + 131 ^{\circ}\text{F}$ (No dew condensation or icing allowed)(Note 4), Storage: $-30 \text{ to} + 70 ^{\circ}\text{C} - 22 \text{ to} + 158 ^{\circ}\text{F}$										
ists	<u>'</u>	-20 to + 5	5 °C −4 to	+ 131 °F (No	dew conden		` '	ote 4), Storaç	ge: - 30 to +	-70 °C −22	to + 158 °F	
S	Ambient humidity	-20 to + 5	5 °C −4 to	+ 131 °F (No			g allowed)(No		ge: -30 to +	-70°C −22	to + 158 °F	
al res.	· · · · · · · · · · · · · · · · · · ·	-20 to + 5			35 to 8	sation or icin 5 % RH, Stor	g allowed)(Ne rage: 35 to 85				to + 158 °F	
nental res.	Ambient humidity	- 20 to + 5			35 to 8 e light-receiv	sation or icin 5 % RH, Stor	g allowed)(No age: 35 to 85 andescent ligh	5 % RH ht: 3,500 ℓx			to + 158 °F	
onmental res.	Ambient humidity Ambient illuminance		Sunlight: 11,	,000 ℓx at th	35 to 8 e light-receiv EN 500	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500	g allowed)(No rage: 35 to 85 undescent light 982-2, EN 61	5 % RH ht: 3,500 ℓx	at the light-re	eceiving face		
invironmental res.	Ambient humidity Ambient illuminance EMC	1,500 V AC	Sunlight: 11,	,000 ℓx at the	35 to 8 e light-receiv EN 500 ver supply an	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 ad output term	g allowed)(No age: 35 to 85 andescent light 982-2, EN 610 annals, 1,000	5 % RH ht: 3,500 ℓx:	at the light-re	eceiving face	ct terminals	
Environmental res	Ambient humidity Ambient illuminance EMC Voltage withstandability	1,500 V AC	Sunlight: 11, for one min.	,000 ℓx at the between pow	35 to 8 e light-receiv EN 500 ver supply ar gger betwee	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 ad output term n power supp	g allowed)(No age: 35 to 85 undescent light 182-2, EN 610 ninals, 1,000 bly and outpu	5 % RH ht: 3,500 ℓx a 000-6-2 V AC for one	at the light-re min. between	eceiving face n relay contact	ct terminals	
	Ambient humidity Ambient illuminance EMC Voltage withstandability Insulation resistance	1,500 V AC	Sunlight: 11, for one min.	000 ℓx at the between pow 500 V DC me	35 to 8 e light-receiv EN 500 ver supply an gger betwee y, 1.5 mm 0.	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 d output term n power supp 059 in ampliti	g allowed)(No age: 35 to 85 indescent light 182-2, EN 61 innals, 1,000 only and output ude in X, Y and	5 % RH ht: 3,500 ℓx = 000-6-2 V AC for one t terminals, a	at the light-re min. between nd between as for two hou	eceiving face n relay contact	ct terminals	
	Ambient humidity Ambient illuminance EMC Voltage withstandability Insulation resistance Vibration resistance Shock resistance	1,500 V AC 20 MΩ, or	Sunlight: 11, for one min. more, with 6	000 ℓx at the between pow 500 V DC me Hz frequence 500 m/s²	35 to 8 e light-receiv EN 500 ver supply ar gger betwee y, 1.5 mm 0.	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 id output term in power supp 059 in amplitux.) in X, Y an	g allowed)(No age: 35 to 85 andescent light 982-2, EN 61 ninals, 1,000 olly and outputude in X, Y and d Z direction	5 % RH ht: 3,500 ℓx 000-6-2 V AC for one t terminals, a nd Z directior s for three tin	min. between his for two houses each	n relay contact relay contact urs each	ct terminals terminals	
Emit	Ambient humidity Ambient illuminance EMC Voltage withstandability Insulation resistance Vibration resistance Shock resistance tting element	1,500 V AC 20 MΩ, or Red LED (r	Sunlight: 11, for one min. more, with 5 10 to 55	between pow 500 V DC me Hz frequenc 500 m/s ²	35 to 8 e light-receiv EN 500 ver supply ar gger betwee y, 1.5 mm 0. (50 G approduction (modulated)	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 id output term n power supp 059 in amplitu x.) in X, Y an Red LED (i	g allowed)(No age: 35 to 85 andescent light 82-2, EN 61 ninals, 1,000 olly and output ude in X, Y and d Z direction modulated)	5 % RH ht: 3,500 ℓx x 000-6-2 V AC for one t terminals, a nd Z directior s for three tim	min. between nd between his for two houses each	n relay contact relay contact urs each	ct terminals terminals	
Emit	Ambient humidity Ambient illuminance EMC Voltage withstandability Insulation resistance Vibration resistance Shock resistance tting element erial	1,500 V AC 20 MΩ, or Red LED (r	Sunlight: 11, for one min. more, with 5 10 to 55 modulated) Polycarbona	between pow 500 V DC me 600 V DC me 6 Hz frequenc 500 m/s ² Infrared LED ate, Lens: Pol	35 to 8 e light-receiv EN 500 ver supply ar gger betwee y, 1.5 mm 0.0 (50 G approduced) (modulated) ycarbonate,	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 d output term n power supp 059 in ampliti xx.) in X, Y an Red LED (i)	g allowed)(No age: 35 to 85 undescent light 82-2, EN 610 ninals, 1,000 oly and outputude in X, Y and d Z directions modulated)	5 % RH ht: 3,500 ℓx: 000-6-2 V AC for one it terminals, a and Z direction is for three time	min. between nd between sis for two hou nes each Infrared LED oreflective ty	n relay contact relay contact urs each (modulated)	ct terminals terminals	
Emit Mate	Ambient humidity Ambient illuminance EMC Voltage withstandability Insulation resistance Vibration resistance Shock resistance tting element erial	1,500 V AC 20 MΩ, or Red LED (r Enclosure:	Sunlight: 11, for one min. more, with 5 10 to 55 modulated) Polycarbona	between pow 500 V DC me Hz frequenc 500 m/s² Infrared LED tte, Lens: Pol 3 mm² 5-cor	35 to 8 e light-receiv EN 500 ver supply an gger betwee y, 1.5 mm 0.1 (50 G approduced) ycarbonate, e (thru-beam	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 id output term in power supp 059 in ampliti ix.) in X, Y an Red LED (i) Cover: Polyce type emitter:	g allowed)(No age: 35 to 85 undescent light 82-2, EN 610 uninals, 1,000 obly and output ude in X, Y and d Z directions modulated) arbonate, Fro 2-core) cabt	5 % RH ht: 3,500 ℓx i 000-6-2 V AC for one it terminals, a and Z directior is for three tin cont cover (reti yre cable, 2 r	min. between min between min between min for two hou mes each Infrared LED coreflective ty m 6.562 ft lor	n relay contact relay contact urs each (modulated)	ct terminals terminals hly): Acrylic	
Emit Mate	Ambient humidity Ambient illuminance EMC Voltage withstandability Insulation resistance Vibration resistance Shock resistance tting element erial ele ele extension	1,500 V AC 20 MΩ, or Red LED (r Enclosure:	Sunlight: 11, for one min. more, with 5 10 to 55 nodulated) Polycarbona 0. up to total 10	between pow 500 V DC me Hz frequenc 500 m/s² Infrared LED tte, Lens: Pol 3 mm² 5-cor	35 to 8 e light-receiv EN 500 /er supply ar gger betwee y, 1.5 mm 0.1 (50 G appro (modulated) yycarbonate, e (thru-beam ft is possible 5 g approx.	sation or icin 5 % RH, Stor ing face, Inca 81-2, EN 500 id output term in power supp 059 in ampliti ix.) in X, Y an Red LED (i) Cover: Polyce type emitter:	g allowed)(No age: 35 to 85 undescent light 82-2, EN 610 uninals, 1,000 obly and output ude in X, Y and d Z directions modulated) arbonate, Fro 2-core) cabt	5 % RH ht: 3,500 ℓx: 000-6-2 V AC for one it terminals, a and Z direction is for three time	min. between nd between sis for two hou nes each Infrared LED coreflective ty n 6.562 ft lor am type: bot	n relay contact relay contact urs each (modulated)	ct terminals terminals hly): Acrylic	

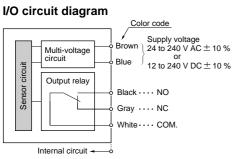
Notes: 1) The sensing range and the sensing object of the retroreflective type sensor is specified for the RF-230 reflector. Further, the sensing range is the possible setting range for the reflector.

The sensor can detect an object less than 0.1 m 0.328 ft away.



- 2) The sensing range of the diffuse reflective type sensor is specified for white non-glossy paper (200 \times 200 mm 7.874 \times 7.874 in) as the object. 3) If slit masks (optional) are fitted, an object as small as 3 \times 6 mm 0.118 \times 0.236 in can be detected. 4) 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



Output operation

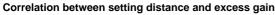
: Object detected state.

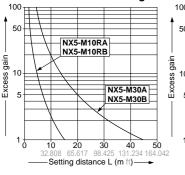
Sensing mode		Thru-b	eam & Re	troreflectiv	e type	Diffuse reflective type			
		Light-ON (A) type		Dark-ON (B) type		Light-ON (A) type		Dark-ON (B) type	
Output		NO (Black cable)	NC (Gray cable)	NO (Black cable)	NC (Gray cable)	NO (Black cable)	NC (Gray cable)	NO (Black cable)	NC (Gray cable)
Output condition	Power OFF	Open	Close	Open	Close	Open	Close	Open	Close
	Beam-received	Close	Open	Open	Close	Close	Open	Open	Close
	Beam-interrupted	Open	Close	Close	Open	Open	Close	Close	Open

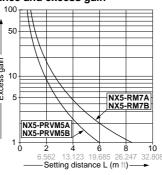
Note: The emitter of the thru-beam type sensor has two wires for power (+ V and 0 V) only.

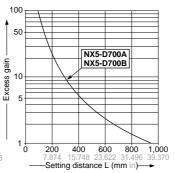
SENSING CHARACTERISTICS (TYPICAL)

All models



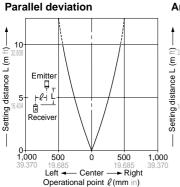


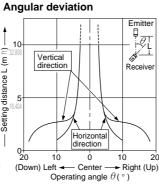


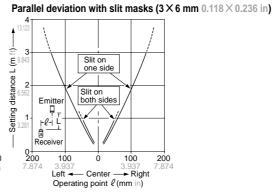


NX5-M10RA NX5-M10RB

Thru-beam type

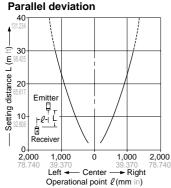


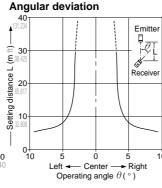


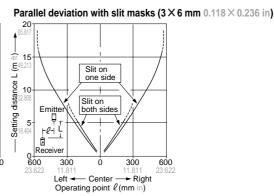


NX5-M30A NX5-M30B

Thru-beam type







SENSING CHARACTERISTICS (TYPICAL)

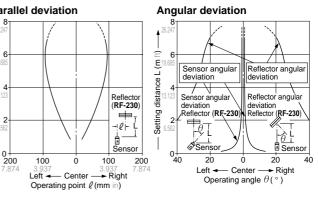
NX5-PRVM5A NX5-PRVM5B NX5-RM7A Retroreflective type Retroreflective type Parallel deviation **Angular deviation** Parallel deviation Reflector angular deviation Sensor angular Setting distance L (m Setting distance L (m Ξ Setting distance L Reflector angula Sensor angula Reflector (RF-230) Reflecto deviation Reflector (RF-230 Reflector (RF-230)

20

Center

Operating angle θ (°)

Left ◄



NX5-D700A NX5-D700B

- Center

Operating point ℓ (mm in)

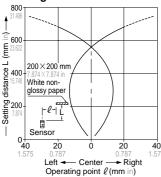
100

Left -

Diffuse reflective type

Sensing field

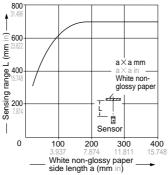
0∔ 200



Correlation between sensing object size and sensing range

20

► Right



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

100

Right

200

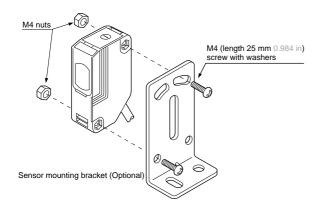
Refer to p.1135~ for general precautions.



This product is not a safety sensor. Its use is not intended or designed to protect life and prevent body injury or property damage from dangerous parts of machinery. It is a normal object detection sensor.

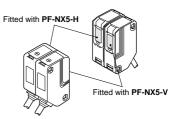
Mounting

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



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.



• There are two types of interference prevention filters. The two sets of thru-beam type sensors should be fitted with different types of interference prevention filters.

Note: The filters cannot be used for NX5-M30A or NX5-M30B.

Others

• Do not use during the initial transient time (50 ms) after the power supply is switched on.

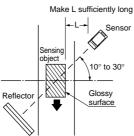
PRECAUTIONS FOR PROPER USE

Refer to p.1135~ for general precautions.

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.
- Install at an angle of 10 to 30 degrees to the sensing object.
- need the above adjustment.



Retroreflective type sensor with polarizing filters (NX5-PRVM5□)

• 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.

In that case, follow the steps given below.

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.

DIMENSIONS (Unit: mm in) The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.co.jp/

NX5-M10RA NX5-M30A NX5-M10RB NX5-M30B Sensor Sensitivity adjuster (Note 2, 3) Stability Operation indicate (Red) (Note 1, 3) (Green) (Note 3): 6 (62 50 Beam axis 2-¢4.5 ¢0.177 mounting holes 2-M4 nut seats (on both sides)

Notes: 1) It is the power indicator (red) on the emitter of NX5-M30 ...

Sensor

2-M4 nut seats (on both sides)

- Not incorporated on NX5-M30□.
- 3) Not incorporated on the emitter.

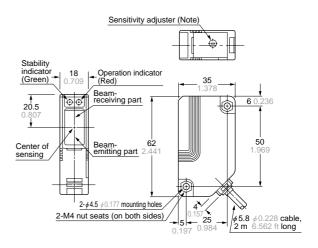
NX5-D700A NX5-D700B

Sensitivity adjust Stability Operation indicator (Red) 18 Beam-receiving part 20.5 50 Center of Beam-emitting part 2 sensing 2-\$4.5 \$\phi 0.177\$ mounting holes

φ5.8 φ0.228 cable 2 m 6.562 ft long

25

NX5-PRVM5A NX5-RM7A NX5-PRVM5B NX5-RM7B Sensor



Note: Not incorporated on NX5-RM7□.

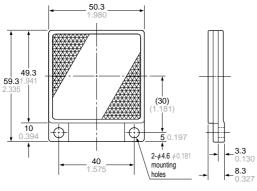
DIMENSIONS (Unit: mm in) The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.co.jp/

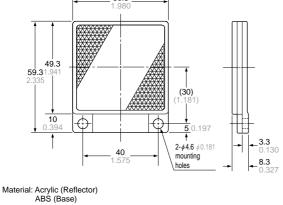
RF-230

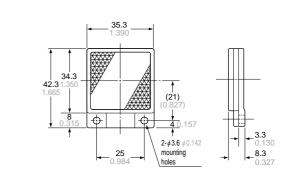
Reflector (Accessory for the retroreflective type sensor)

RF-220

Reflector (Optional)





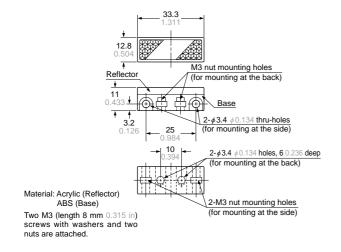


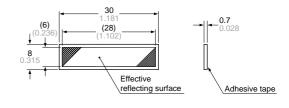
Material: Acrylic (Reflector) ABS (Base)

RF-210

Reflector (Optional)

RF-11 Reflective tape (Optional)

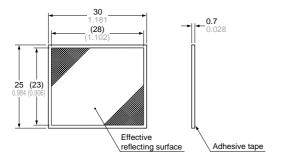




Material: Acrylic

RF-12

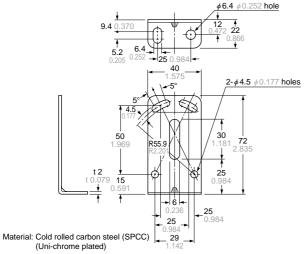
Reflective tape (Optional)



Material: Acrylic

DIMENSIONS (Unit: mm in) The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.co.jp/

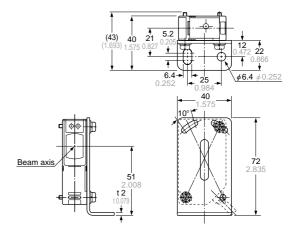
MS-NX5-1 Sensor mounting bracket (Optional)



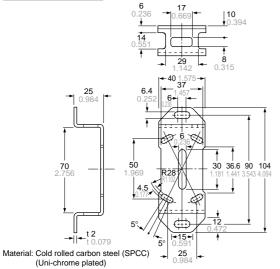
Two M4 (length 25 mm $0.984\ \mbox{in})$ screws with washers and two M4 nuts are attached.

Assembly dimensions

Mounting drawing with the receiver of NX5-M10R□



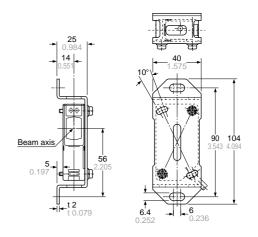
MS-NX5-2 Sensor mounting bracket (Optional)



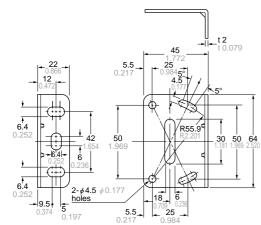
Two M4 (length 25 mm $0.984\ \mbox{in})$ screws with washers and two M4 nuts are attached.

Assembly dimensions

Mounting drawing with the receiver of NX5-M10R□



MS-NX5-3 Sensor mounting bracket (Optional)

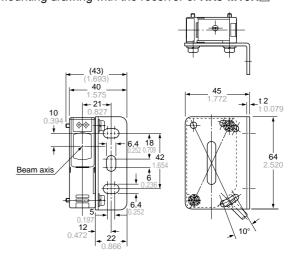


Material: Cold rolled carbon steel (SPCC) (Uni-chrome plated)

Two M4 (length 25 mm $0.984 \, \text{in}$) screws with washers and two M4 nuts are attached.

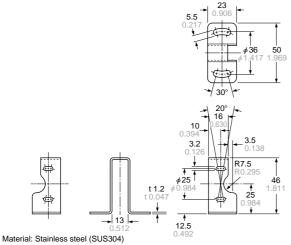
Assembly dimensions

Mounting drawing with the receiver of NX5-M10R□



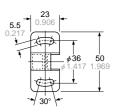
366 SUNX

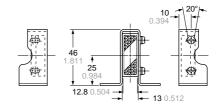
MS-RF21-1 Reflector mounting bracket for RF-210 (Optional)



Assembly dimensions

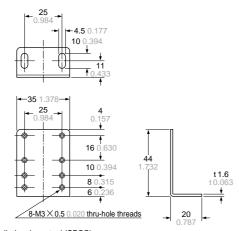
DIMENSIONS (Unit: mm in) The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.co.jp/



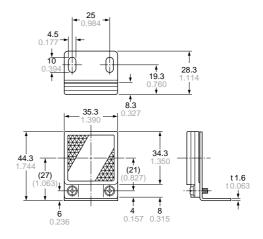


Two M3 (length 12 mm 0.472 in) screws with washers are attached

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



Assembly dimensions



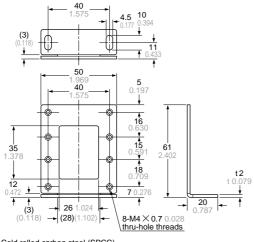
Material: Cold rolled carbon steel (SPCC)

(Uni-chrome plated)

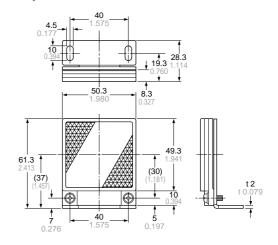
Two M3 (length 8 mm 0.315 in) screws with washers are attached.

MS-RF23

Reflector mounting bracket for RF-230 (Optional)



Assembly dimensions



Material: Cold rolled carbon steel (SPCC)

Two M4 (length 10 mm 0.394 in) screws with washers are attached.