Long Range & Wide Area Photoelectric Sensor Amplifier Built-in

Related Information

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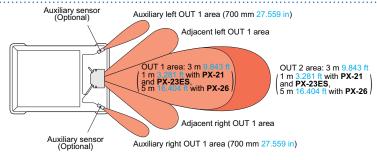


Compact size sensor realizes wide sensing area & long sensing range

Ideal sensing area with very little null zone

The advanced optical system of the PX-2 series reduces the null zones in front of an automatic guided vehicle (AGV). The null zones at the sides are further minimized if auxiliary sensors which can be easily mounted with connectors are used.

For **PX-24**, **PX-24ES**, **PX-23ES** and PX-26

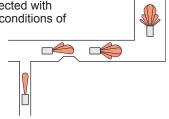


Sensing areas selectable as per route condition

Sensing areas can be selected with switches to suit the route conditions of an AGV.

the sensing areas can

Further, in case of PX-24ES and PX-23ES, also be selected with external signals.



Compact size for space-saving Its size is half of a conventional model.

and the attached cable orientation is freely adjustable. Hence, it can also fit in a small AGV. Moreover, sensitivity adjustment can be done on the front face.



Long sensing range 5 m 16.404 ft type

PX-26 has a long sensing range of 5 m 16.404 ft. Even on a high-speed AGV, it can detect an object quite early so that slowing down and stopping are smooth.

Automatic interference prevention function

One PX-2 sensor can simultaneously receive beams from 25 Nos. of other PX-2 sensors without resulting in any interference. Even if AGVs are facing each other, the PX-2 sensor on one AGV reliably detects the other AGVs. Hence, it can be safely used even at a place where several AGVs are moving.

Sleep function

The sensor can be put into the sleep (stand-by) condition when it is not used and can be restored to operating condition by an external signal.

Consequently battery is conserved as the power consumption is reduced to 1/5.

External sensitivity adjustment

The sensitivity of the sensor can be adjusted, within the range set by the manual adjuster, by an external input. (For PX-24, PX-24ES, PX-23ES and PX-26)



ORDER GUIDE

SPECIFICATIONS

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ORDER GUIDE

Main Sensor

	Туре	Appearance	Sensing range	Model No.
1	Standard type		3 m 9.843 ft	PX-22
d	Standa Short sensing range		1 m 3.281 ft	PX-21
Auxiliary sensor connectable type			3 m 9.843 ft	PX-24
	ontrol function			PX-24ES
	With external control function Short sensing range		1 m 3.281 ft	PX-23ES
	Long sensing range		5 m 16.404 ft	PX-26
Auxiliary sensor			700 mm 27.559 in	PX-SB1

Accessories

• MS-PX-2 (Main sensor mounting bracket)



Two bracket set

Four M4 (length 8 mm)

0.315 in) screws with
washers are attached.

• MS-NX5-1 (Auxiliary sensor mounting bracket)



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

OPTIONS

Designation	Model No.	Description
Auxiliary sensor	MS-NX5-2	Foot biangled mounting bracket (Sensor protection bracket)
mounting bracket (Note)	MS-NX5-3	Back angled mounting bracket

Note: Refer to the NX5 series (p.372) for dimensions of the auxiliary sensor mounting bracket.

Auxiliary sensor mounting bracket

• MS-NX5-2



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



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

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RX

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PX-2 RT-610

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NX5

VF Amplifier-

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Other Products

SUNX

SPECIFICATIONS

Туре		Standard model Short sensing range		Auxiliary sensor connectable model			
					With externa	Short sensing range	Long sensing range
Item	Model No.	PX-22	PX-21	PX-24	PX-24ES	PX-23ES	PX-26
	g range (OUT 1 and OUT 2 areas) (Note 2)	3 m 9.843 ft	1 m 3.281 ft		0.843 ft	1 m 3.281 ft	5 m 16.404 ft
	eresis (Note 2)				peration distance		
	oly voltage						
	er consumption (Note 3)	10 to 31 V DC including ripple Under operation: 1.5 W or less, Under sleep condition: 0.3 W or less (without auxiliary sensor)					
OUT1 OR circuit among the effective center, left, right, adjacent left / right OUT 1 areas and the effective auxiliary left / right areas OUT2 OR circuit among the effective center, left and right OUT 2 areas		NPN open-collector transistor • Maximum sink current: 100 mA • Applied voltage: 40 V DC or less (between OUT 1 / OUT 2 and 0 V) • Residual voltage: 1.5 V or less (at 100 mA sink current) 0.4 V or less (at 16 mA sink current)					
	Utilization category			DC-12 o	or DC-13		
	Output operation	Selectab	le either Light-ON or D	Park-ON with a switch	(Output operation o	f OUT 1 and OUT 2 is th	ne same.)
	Short-circuit protection	Selectable either Light-ON or Dark-ON with a switch (Output operation of OUT 1 and OUT 2 is the same.) Incorporated					
Extraneous light monitor output		NPN open-collector transistor • Maximum sink current: 100 mA • Applied voltage: 40 V DC or less (between extraneous light monitor output • Residual voltage: 1.5 V or less (at 100 mA sink current) 0.4 V or less (at 16 mA sink current)				onitor output and 0 \	
	Output operation			ON when modulated b	beam other than its ov	wn (including auxiliary sen	sor's) light is receive
	Short-circuit protection						
Response time		80 ms or less					
Operation OUT 1 area		Red LED (lights up when the beam is received in the effective OUT 1 areas)					
indicators OUT 2 area		Yellow LED (lights up when the beam is received in the effective OUT 2 areas)					
Sens	sitivity adjuster	Continuously variab	le adjusters (OUT 1, ad	djacent right OUT 1, a	djacent left OUT 1 ar	nd OUT 2 areas are adju	sted independently
Exterr	nal sensitivity adjustment function			Sensi	itivity adjustment is p	possible with an analog	input.
Sensing area		Four sensing areas are selectable with dip switches. Four sensing areas are selectable with dip switches, and eight sensing areas are selectable with external inputs.			Fixed		
Slee	p function	Operating / sleep selectable with external input					
Autom	atic interference prevention function	Optical interference from up to 25 units is prevented.					
	Pollution degree	3 (Industrial environment)					
	Protection	IP65 (IEC) (Refer to p.984 for details of standards.)					
nce	Ambient temperature	-10 to +55 °C +14 to +131 °F (No dew condensation or icing allowed), Storage: -20 to +70 °C -4 to +158 °F					
sista	Ambient humidity	35 to 85 % RH, Storage: 35 to 85 % RH					
al re	Ambient illuminance	Incandescent light: 3,000 & at the light-receiving face					
meni	EMC	EN 60947-5-2					
Environmental resistance	Voltage withstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure					
Eu	Insulation resistance	20 MΩ, or more, with 500 V DC megger between all supply terminals connected together and enclosure					
	Vibration resistance	10 to 500 Hz frequency, 3 mm 0.118 in amplitude (20 G max.) in X, Y and Z directions for two hours each					
	Shock resistance		500 m/s² accelerati	ion (50 G approx.) in 2	X, Y and Z directions	s for three times each	
	ting element		Infrared LED (Peak emission wavel	ength: 950 nm 0.037	7 mil, modulated)	
Emit	erial		Encl	osure: ABS, Lens: Ac	rylic, Cover: Polycar	bonate	
	e	0.3 mm² 5-core cabtyre cable, 0.5 m 1.640 ft long (for input and output) For input and output: 0.18 mm² 9-core (PX-24ES and PX-23ES: 12-core) cabtyre cable, 0.5 m 1.640 ft long For auxiliary sensor connection: 0.18 mm² 10-core connector attached cabtyre cable, 0.5 m 1.640 ft long					
Mate							
Mate	e extension	Extension up to tota	al 100 m 328.084 ft (10	m 32.808 ft for auxili	ary sensor connection	on) is possible with 0.3 r	nm ² , or more, cabi
Mate		Ne	al 100 m 328.084 ft (10 et weight: 210 g approx ross weight: 390 g app	К.	Net weight:	220 g approx. ht: 400 g approx.	nm², or more, ca Net weight: 210 g app Gross weight: 390 g a

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

2) The sensing range is specified for white non-glossy paper (300 × 300 mm 11.811 × 11.811 in) as the object.

3) Obtain the current consumption by the following calculation.

Current consumption = Power consumption ÷ Supply voltage

(e.g.) When the supply voltage is 12 V, the current consumption (operating condition) is: 1.5 W ÷ 12 V = 0.125 A = 125 mA



SPECIFICATIONS

Auxiliary sensor (Note 2)

Model No.	PX-SB1
Item	
Applicable main sensor	PX-24, PX-24ES, PX-23ES or PX-26
Connectable units	Up to two PX-SB1 's can be connected to one main sensor.
Sensing range (Note 3)	700 mm 27.559 in
Supply voltage	Supplied from the main sensor
Current consumption	Current consumption of the main sensor increases by 30 mA approx. per auxiliary sensor.
Output	OR circuit with the main sensor's OUT 1
Operation indicator	Red LED (lights up when the beam is received)
Sensitivity adjuster	Continuously variable adjuster
Emitting element	Infrared LED (modulated)
Material	Polycarbonate
Cable	0.3 mm ² 5-core cabtyre cable, 2 m 6.562 ft long
Cable extension	Extension up to total 10 m 32.808 ft is possible with 0.3 mm², or more, cable.
Weight	Net weight: 130 g approx., Gross weight: 240 g approx
Accessories	MS-NX5-1 (Auxiliary sensor mounting bracket): 1 set, Adjusting screwdriver: 1 pc.

Specifications other than the above are identical with the main sensor.

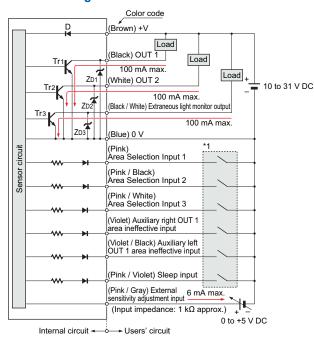
Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

- 2) The auxiliary sensor cannot be used as a stand-alone unit.
- 3) The sensing range is specified for white non-glossy paper (300 × 300 mm 11.811 × 11.811 in) as the object.

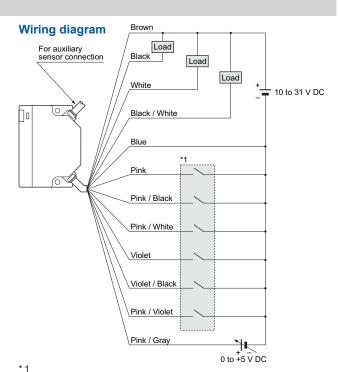
I/O CIRCUIT AND WIRING DIAGRAMS

PX-24ES PX-23ES

I/O circuit diagram



Symbols ... D: Reverse supply polarity protection diode ZD1, ZD2, ZD3: Surge absorption zener diode Tr1, Tr2, Tr3 : NPN output transistor



Non-voltage contact or NPN open-collector transistor · Area selection input Low (0 to 1 V): Depends on the logic combination High (4.5 to 31 V, or open): Depends on the logic combination Auxiliary area ineffective input Low (0 to 1 V): Area ineffective High (4.5 to 31 V, or open): Area effective Sleep input Low (0 to 1 V): Sleep condition High [(supply voltage – 1 V) to 31 V, or open]: Operating condition FIRFR SENSORS

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MQ-W RX-LS200

CY

RT-610

Power Supply Built-in

NX5

Amplifier-

separated SU-7 / SH

SS-A5 / SH



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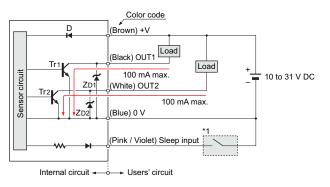
SS-A5 / SH

Other Products

I/O CIRCUIT AND WIRING DIAGRAMS

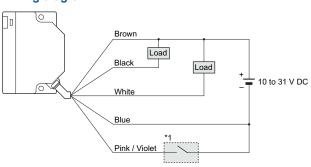
PX-22 PX-21

I/O circuit diagram



Symbols ... D: Reverse supply polarity protection diode ZD1, ZD2: Surge absorption zener diode Tr1, Tr2 : NPN output transistor

Wiring diagram



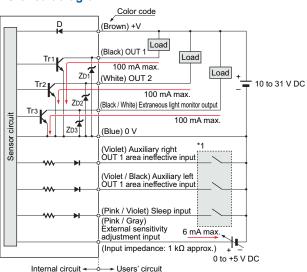
Non-voltage contact or NPN open-collector transistor

or

Sleep input
Low (0 to 1 V): Sleep condition
High [(supply voltage – 1 V) to 31 V, or open]: Operating condition

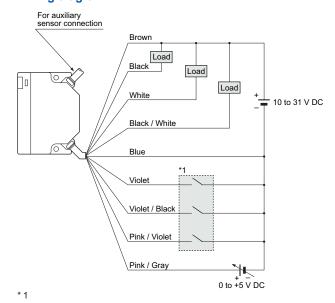
PX-24 PX-26

I/O circuit diagram

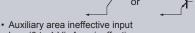


Symbols ... D: Reverse supply polarity protection diode ZD1, ZD2, ZD3: Surge absorption zener diode Tr1, Tr2, Tr3 : NPN output transistor

Wiring diagram



Non-voltage contact or NPN open-collector transistor



Low (0 to 1 V): Area ineffective
High (4.5 to 31 V, or open): Area effective

• Sleep input

Low (0 to 1 V): Sleep condition High [(supply voltage – 1 V) to 31 V, or open]: Operating condition

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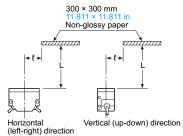
PRESSURE SENSORS

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SENSING CHARACTERISTICS (TYPICAL)

How to read sensing characteristics

· Sensing field



Note: The sensitivity has been adjusted so that the maximum sensing range for white non-glossy paper (300 × 300 mm 11.811) I in) is 3 m 9.843 ft (1 m 3.281 ft for PX-21 and PX-23ES, 5 m 16.404 ft for PX-26) with the L., C. and R. areas effective.

Sensing area

Left area Center area Right area Adjacent left OUT 1 area Adjacent right OUT 1 area

Sensing object

Type of non-glossy paper

White non-glossy paper (lightness: 9)

Gray non-glossy paper (lightness: 5)

Black non-glossy paper (lightness: 2)

· Correlation between external sensitivity adjustment input voltage and sensing range



It shows the variation in the sensing range when the external input voltage is changed from 0 to +5 V with the sensitivity adjuster set at the maximum sensing range.

Correlation between sensitivity adjuster and sensing range

Please note that due to the adjuster's characteristics it may be difficult to adjust the sensitivity at a close distance or near to rated sensing distances. (Refer to "Correlation between sensitivity adjustor and sensing range" below.)

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RX-LS200

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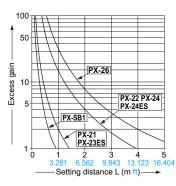
PX-2

RT-610 Power Supply

Built-in NX5

All models

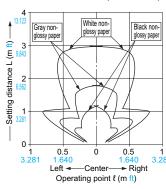
Correlation between setting distance and excess gain



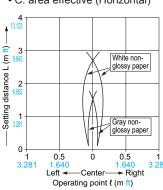
PX-22 PX-24 **PX-24ES**

Sensing fields

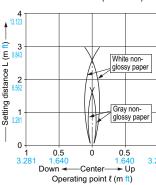
· All areas effective (Horizontal)



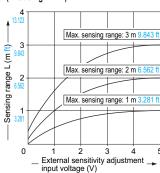
· C. area effective (Horizontal)



· All areas effective (Vertical)

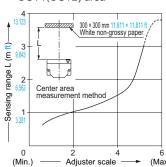


Correlation between external sensitivity adjustment input voltage and sensing range (Excluding PX-22)



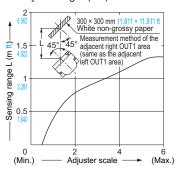
Correlation between sensitivity adjuster and sensing range

OUT1(OUT2) area



Adjuster scale

· Adjacent right (left) OUT1 area



Adjuster scale



SU-7 / SH SS-A5 / SH

Amplifier-



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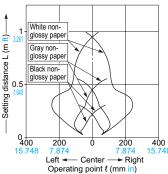
SS-A5 / SH Other Products

SENSING CHARACTERISTICS (TYPICAL)

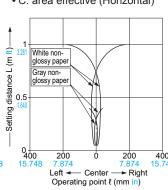
PX-23ES

Sensing fields

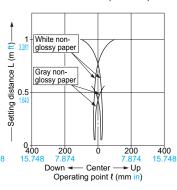
· All areas effective (Horizontal)



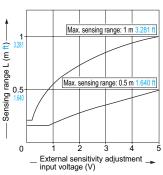
· C. area effective (Horizontal)



· All areas effective (Vertical)

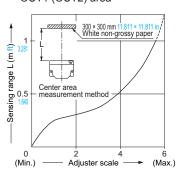


Correlation between external sensitivity adjustment input voltage and sensing range (PX-23ES only)



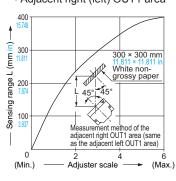
Correlation between sensitivity adjuster and sensing range

· OUT1 (OUT2) area





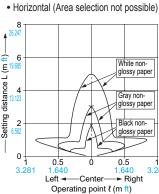
• Adjacent right (left) OUT1 area



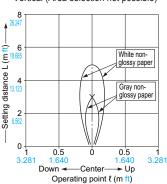


PX-26

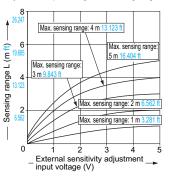
Sensing fields



• Vertical (Area selection not possible)

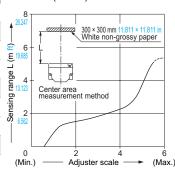


Correlation between external sensitivity adjustment input voltage and sensing range



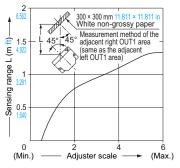
Correlation between sensitivity adjuster and sensing range

OUT1 (OUT2) area



Adjuster scale

· Adjacent right (left) OUT1 area



Adjuster scale

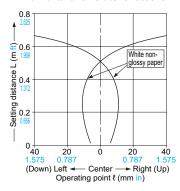


SENSING CHARACTERISTICS (TYPICAL)

PX-SB1

Sensing field

· Horizontal and vertical directions



PRECAUTIONS FOR PROPER USE

Refer to p.986~ for general precautions.

All models



· 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.

Hazard Indications

In this catalog, **MARNING** and **ACAUTION** are indicated depending upon the level of danger. Please observe them strictly for the safe use of this sensor.

⚠ WARNING

'WARNING' indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION

'CAUTION' indicates a hazardous situation that, if not avoided, may result in minor or moderate injury. Further, they also indicate the condition of risk of physical damage to machinery.

⚠ WARNING

Installation of a touch bumper

You are requested to always install a touch bumper when this product is used on an automatic guided vehicle (AGV).

⚠ CAUTION

· Use outside Japan

This sensor conforms to the EMC Directive. However, it is not certified by a competent body in accordance with other country safety standards. Since each country has its regulations, please follow the local and national regulations of the country where this sensor is used.

⚠ CAUTION

· Fail-safe measures

This sensor is meant for proximity detection and does not possess control functions for safety maintenance. If fail-safe measures are required, consider their incorporation in the total

Further, do not connect the sensor output directly to a stopping mechanism (brake).

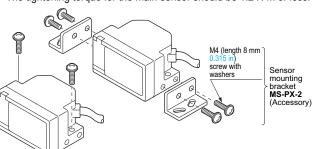
⚠ CAUTION

Periodical maintenance check

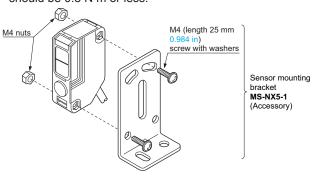
The person in charge must periodically confirm the performance of the product and maintain a record of such checks. In addition, whenever the operating environment of the product is changed due to system modification, etc., performance check must be done.

Mounting

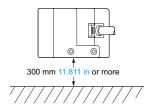
• The tightening torque for the main sensor should be 1.2 N·m or less.



• The tightening torque for PX-SB1 (auxiliary sensor) should be 0.8 N·m or less.



 Mount the sensor, horizontally, at least 300 mm 11.811 in above the floor, to avoid reflection from the floor.





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SAFETY COMPONENTS

PRESSURE SENSORS

INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

SENSOR OPTIONS

SYSTEMS MEASURE: MENT SENSORS

CONTROI DEVICES

LASER MARKERS

Selection Guide

CX-400 **EX-10**

EX-20 EX-30

EX-40 **EQ-30**

EQ-500 MQ-W

RX-LS200

CY

RT-610 Power Supply

Built-in NX5

Amplifier-

SU-7 / SH

SS-A5 / SH



PRECAUTIONS FOR PROPER USE

FIBER SENSORS

Refer to p.986~ for general precautions.

LASER SENSORS

PHOTO ELECTRIC SENSORS MICRO PHOTO ELECTRIC SENSORS

SENSORS

SAFETY
COMPONENTS

ARFA

PRESSURE SENSORS INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS SENSOR OPTIONS

WIRE-SAVING SYSTEMS MEASURE-MENT SENSORS

STATIC CONTROL DEVICES LASER MARKERS

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> EX-20 EX-30

> EX-40 EQ-30

EQ-500

MQ-W RX-LS200 RX CY

RT-610

Power Supply

NX5 VF

Amplifier-

separated

SU-7 / SH

SS-A5 / SH

All models

Others

- Do not use during the initial transient time (0.7 sec.) after the power supply is switched on.
- Take care that an initial rush current (1.5 A approx. at 10 V DC and 5 A approx. at 31 V DC) will flow when the power supply is switched on.

PX-SB1

 This sensor must always be used with the applicable main sensor. This sensor does not work as a standalone unit. (It cannot be used with PX-22 or PX-21.)

PX-24 PX-24ES PX-23ES PX-26

External sensitivity adjustment function

 The sensitivity can be adjusted, within the range set by the manual sensitivity adjuster, by an analog voltage (0 to +5 V) applied to the external sensitivity adjustment input. The sensitivity varies with the magnitude of the applied voltage.

Notes: 1) The sensitivity of the auxiliary sensor is not changed.

Sensitivity adjustment beyond the range set by the manual sensitivity adjuster is not possible.

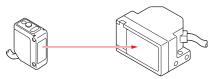
Input voltage	0 V ← → +5 V or open
Sensitivity	Minimum ← → Maximum (Maximum sensitivity set by the manual sensitivity adjuster)

Notes: 3) This wire should be insulated if it is not used.

Extraneous light monitor function

(Not incorporated in PX-22 and PX-21)

 If the sensor receives modulated light other than its own (including auxiliary sensor's) light, the extraneous light monitor output turns ON. The operation of the extraneous light monitor output has absolutely no affect on sensing.
 It is useful for recognizing presence of other sensors near this sensor in case of intersecting AGV paths, etc.

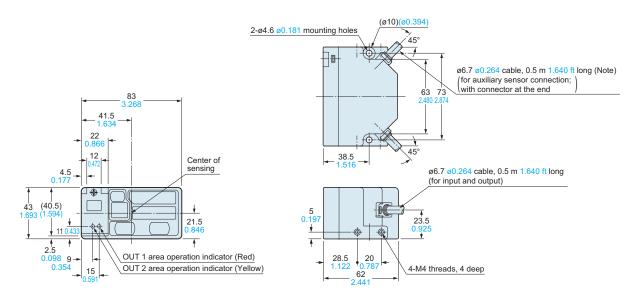


Note: The extraneous light monitor output is not incorporated with a short-circuit protection circuit. Do not connect it directly to a power supply or a capacitive load.

DIMENSIONS (Unit: mm in)

The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.com Refer to the **NX5** series (p.372) for dimensions of the auxiliary sensor mounting bracket.

PX-2 Main senso



Note: PX-22 and PX-21 do not have this cable.

Products

DIMENSIONS (Unit: mm in)

The CAD data in the dimensions can be downloaded from the SUNX website: http://www.sunx.com Refer to the **NX5** series (p.372) for dimensions of the auxiliary sensor mounting bracket.

FIBER SENSORS

LASER SENSORS

Auxiliary sensor

PHOTO-ELECTRIC SENSORS MICRO PHOTO-

AREA SENSORS

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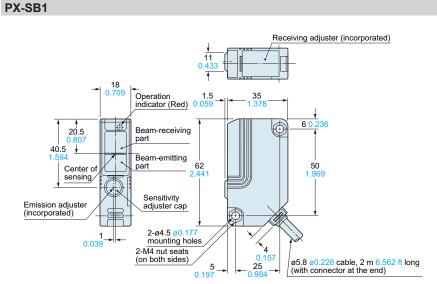
EX-40

EQ-30 EQ-500 MQ-W

RX-LS200 RX CY PX-2 RT-610

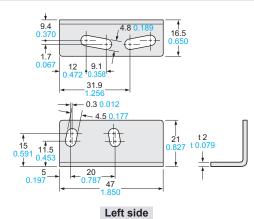
Power Supply Built-in

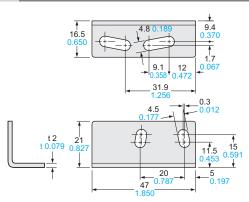
Amplifierseparated SU-7 / SH SS-A5 / SH



MS-PX-2

Main sensor mounting bracket (Accessory for PX-2□)





Right side

Material: Cold rolled carbon steel (SPCC)

al: Cold rolled carbon st (Uni-chrome plated)

Four M4 (length 8 mm 0.315 in) screws with washers are attached.

Assembly dimensions

Mounting drawing with PX-24

