LASER SENSORS

SENSORS AREA SENSORS LIGHT CURTAINS / COMPONENTS PRESSURE / FLOW SENSORS INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

SENSOR OPTIONS SIMPL F UNITS WIRE-SAVING SYSTEMS MEASUREMENT

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION

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## Adjustable Range Reflective Photoelectric Sensor Amplifier Built-in

FIBER SENSORS Related Information ■ General terms and conditions...... F-7

■ Sensor selection guide......P.271~

■ Glossary of terms......P.1455~

■ General precautions ...... P.1458~







## Unaffected by color or material, 2 m (6.562 ft) distance adjustable range reflective sensing

## Hardly affected by object color or background

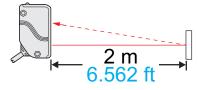
As the **EQ-30** series is incorporated with a 2-segment photodiode as the receiving element with a unique circuitry, it detects an object at the same distance regardless of its color or the background beyond the adjusted sensing range.

However, when the background is specular, it may be necessary to change the angle of the sensor.

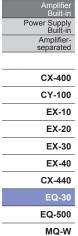
### Long sensing range 2 m 6.562 ft

The **EQ-30** series can detect an object 2 m 6.562 ft away.

It is suitable for various applications, such as, sensing objects or positioning objects traveling on a wide assembly line, etc.

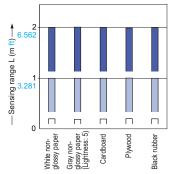


EQ-34: Correlation between material (200 × 200 mm 7.874 × 7.874 in) and sensing range (typical)



RX-LS200

RT-610



These bars indicate the sensing range with the respective objects when the distance adjuster is set at the sensing range of 2 m  $6.562 \ \text{ft}$ , 1 m 3.281 ft and 0.2 m 0.656 ft long, each, with white non-glossy paper.

Two distances (far and near) can be set EQ-34W With EQ-34W, two sensing distances, Far (Main) and **EQ-34W** Near (Sub), can be set. Hence, one sensor can suffice where, earlier, two

were required.

Near Far (Sub) (Main)

NOTICE: EQ-34W & EQ-34W-C5 part numbers are discontinued as of Sept. 29, 2017. All other part numbers remain available to order.

Mechanical 2-turn adjuster with indicator

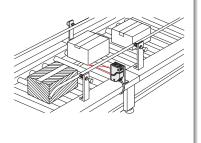
indicator that shows the set distance at a glance.

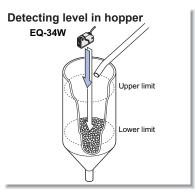
It features a mechanical 2-turn distance adjuster with an

Distance adjuster (2-turn)

#### **APPLICATIONS**

#### Detecting a passage of cardboard box





**OPERABILITY** 

Adjuster indicato

**MOUNTING / SIZE** 

It saves space, since a

miniaturized housing of

W20 × H68 × D40 mm W0.787 × H2.677 × D1.575

in has been designed for the adjustable range reflective sensing sensor even though the adjustable sensing range is 2 m

Compact

NOTICE: EQ-34W & EQ-34W-C5 part numbers are discontinued as of Sept. 29, 2017. All other part numbers remain available to order.

FIBER SENSORS

LASER SENSORS

MICRO

LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE / FLOW SENSORS

PARTICULAR

PREVENTION

PHOTOELECTRIC

INDUCTIVE PROXIMITY SENSORS

UNITS

DEVICES

PLC

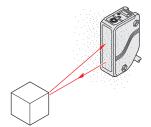
HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION

#### **ENVIRONMENTAL RESISTANCE**

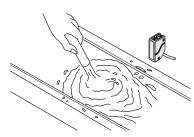
## Insusceptible to contamination on lens

The fixed-focus sensing keeps the detectability better than diffuse reflective type sensors even if the lens is contaminated by dirt, dust, mist, or smoke under an unclean environment.



## Waterproof

It has IP67 protection. It can be used in places splashed with water.

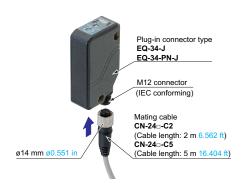


Note: However, take care that if it is exposed to water splashes during operation, it may detect a water drop itself.

## 6.562 ft long. **VARIETIES**

### Plug-in connector type is available

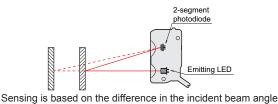
Plug-in connector type, which can be easily disconnected for replacement is available. In case a problem occurs, anyone can replace the sensor in a minute. (Excluding EQ-34W)



### Principle of adjustable range reflective sensing with 2-segment photodiode

Normal reflective type sensors operate by sensing the variation in the amount of incident beam.

However, the adjustable range reflective sensing type sensor incorporating the 2-segment photodiode operates by sensing the variation in the incident beam angle. Thus, the output is activated according to the distance of the object from the sensor. This system helps the EQ-30 series in being unaffected by object color or a background, enabling stable sensing.



of the dotted line and the solid line in the above figure.

SENSORS

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USE SENSORS

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WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC ELECTRICITY

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CX-400 CY-100

EX-10

EX-20

EX-30

EX-40

CX-440 EQ-30

EQ-500

MQ-W

RX-LS200

RX

RT-610

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CX-400

CY-100

EX-10 FX-20 EX-30

EX-40 CX-440

EQ-30

EQ-500 MQ-W

RX-LS200

RX RT-610

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INDUCTIVE PROXIMITY SENSORS

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# Mating cable

Model No.: EQ-34-J, EQ-34-PN-J

	Туре	Model No.		
	Straight Elbow	CN-24-C2	Length: 2 m 6.562 ft	
		CN-24-C5	Length: 5 m 16.404 ft	0.3 co
		CN-24L-C2	Length: 2 m 6.562 ft	Ca ø5
		CN-24L-C5	Length: 5 m 16.404 ft	

34 mm<sup>2</sup> 4-core cabtyre cable with onnector on one end able outer diameter: 5 mm ø0.197 in

Description

5 m 16.404 ft cable length type (standard : 2 m 6.562 ft) is also available for NPN output type and two

When ordering this type, suffix "-C5" to the model No. Model No.: EQ-34-C5, EQ-34W-C5

5 m 16.404 ft cable length type

## **ORDER GUIDE**

Туре	Appearance	Adjustable range (Note)	Model No.	Output
NPN output		0.2 to 2 m 0.656 to 6.562 ft	EQ-34	NPN open-collector transistor
PNP output			EQ-34-PN	PNP open-collector transistor
Two outputs			EQ-34W	Two NPN open-collector transistor outputs Discontinued as of Sept. 29, 2017

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

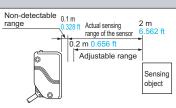
Note: The adjustable range stands for the maximum sensing range which can be set with the adjuster.

Plug-in connector type (standard: cable type) is also available. (excluding **EQ-34W**) When ordering this type, suffix "-J" to the model No. Please order the suitable mating cable separately.

The sensor can detect an object 0.1 m 0.328 ft, or more, away.

Plug-in connector type (Not available for EQ-34W)

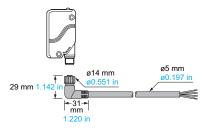
However, the detectable range of Near (Sub) type of EQ-34W begins at 0.2 m 0.656 ft.



#### • CN-24-C□



#### • CN-24L-C□



#### **OPTIONS**

Designation Model No.		Description	
Sensor	MS-EQ3-1	Back angled mounting bracket	
mounting bracket	MS-EQ3-2	Foot angled mounting bracket	

Note: The plug-in connector type does not allow use of some sensor mounting brackets because of the protrusion of the connector.

#### Sensor mounting bracket

• MS-EQ3-1

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

• MS-EQ3-2



screws with washers and two M4 nuts are attached.



Ramco National

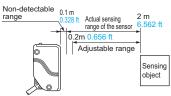
## **SPECIFICATIONS**

		Туре	NPN output	PNP output	Two outputs Discontinued as of Sept. 29.	
Item	1	Model No.	EQ-34	EQ-34-PN	EQ-34W 2017	
Adjustable range (Note 2)		e (Note 2)	0.2 to 2 m 0.656 to 6.562 ft		Far (Main): 0.2 to 2 m 0.656 to 6.562 ft Near (Sub): Refer to diagram in (Note 3)	
Sensing range (with white non-glossy paper at setting distance 2 m 6.562 ft)			0.1 to 2 m 0.328 to 6.562 ft		Far (Main): 0.1 to 2 m 0.328 to 6.562 ft Near (Sub): 0.2 to 2 m 0.656 to 6.562 ft [with Near (Sub) distance for adjuster at max.]	
Hyst	teresis		10 % or less of operation distance (With white non-glossy paper)			
Repe	eatability		Along sensing axis: 10 mm 0.394 in or less, Perpendicular to sensing axis: 1 mm 0.039 in or less (with white non-glossy paper)			
Supp	ply voltage		10 to 30 V DC Ripple P-P 10 % or less			
Curr	ent consum	otion	50 mA or less	55 mA or less	90 mA or less	
Output			NPN open-collector transistor  • Maximum sink current: 100 mA  • Applied voltage: 30 V DC or less (between output and 0 V)  • Residual voltage: 1 V or less (at 100 mA sink current)  0.4 V or less (at 16 mA sink current)	PNP open-collector transistor  • Maximum source current: 100 mA  • Applied voltage: 30 V DC or less (between output and +V)  • Residual voltage: 1 V or less (at 100 mA source current) 0.4 V or less (at 16 mA source current)	<far (main)="" (sub)="" near="" output="" output,=""> NPN open-collector transistor <ul> <li>Maximum sink current: 100 mA</li> <li>Applied voltage: 30 V DC or less (between output and 0 V)</li> <li>Residual voltage: 1 V or less (at 100 mA sink current)</li> <li>0.4 V or less (at 16 mA sink current)</li> </ul></far>	
	Utilization of	category		DC-12 or DC-13		
	Output ope		Switchable either Detection-ON or Detection-OFF			
	Short-circu	it protection		Incorporated		
Resp	ponse time		2 ms or less			
Operation indicator		tor	Red LED (lights up when the output is ON)		Far (Main) output: Red LED  [lights up when the Far (Main) output is ON]  Near (Sub) output: Red LED  [lights up when the Near (Sub) output is ON]	
Stab	ility indicato	r	Green LED (lights up under stable light received condition or stable dark condition) (Note 4)			
Distance adjuster		er	2-turn mechanical adjuster with pointer		Far (Main): 2-turn mechanical adjuster with pointer Near (Sub): Variable adjuster	
Automatic interference prevention function		prevention function	Incorporated (Note 5)			
	Pollution de	egree	3 (Industrial environment)			
ce	Protection		IP67 (IEC)			
star	Ambient te		–20 to +55 °C −4 to +131 °F (No dew condensation or icing allowed), Storage: –25 to +70 °C −13 to +158 °F			
resi	Ambient hu		35 to 85 % RH, Storage: 35 to 85 % RH			
ıtal	Ambient illu	uminance	Incandescent light: 3,000 tx at the light-receiving face			
mer	EMC		EN 60947-5-2			
Environmental resistance		hstandability	1,000 V AC for one min. between all supply terminals connected together and enclosure			
-in	Insulation re		20 MΩ, or more, with 250 V megger between all supply terminals connected together and enclosure			
			10 to 55 Hz frequency, 1.5 mm 0.059 in amplitude (10 G max.) in X, Y and Z directions for two hours each			
Shock resistance			500 m/s² acceleration (50 G approx.) in X, Y and Z directions for three times each  Infrared LED (Peak emission wavelength: 880 nm 0.035 mil, modulated)			
Emitting element  Material			Enclosure: Polyalylate and Polyethylene terephthalate, Lens: Polyalylate			
Cabl			0.3 mm² 3-core ( <b>EQ-34W</b> : 4-core) cabtyre cable, 2 m 6.562 ft long			
	le extension		U.3 mm² 3-core ( <b>EQ-34W</b> : 4-core) captyre cable, 2 m 6.562 π long  Extension up to total 100 m 328.084 ft is possible with 0.3 mm², or more, cable.			
Weig			Net weight: 150 g approx., Gross weight: 200 g approx.			
	essory		Adjusting screwdriver: 1 pc.			
Accessory			Aujusting sciewoniver. 1 pc.			

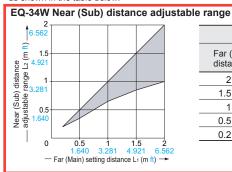
Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

 The adjustable range stands for the maximum sensing range which can be set with the adjuster.
 The sensor can detect an object 0.1 m 0.328 ft, or more, away.

However, the detectable area of the Near (Sub) type of the EQ-34W begins at 0.2 m 0.656 ft.



 Refer to "Stability indicator (p.361)" of "PRECAUTIONS FOR PROPER USE" for details of the stability indicator. 3) The Near (Sub) distance adjustable range, L2, changes with the setting of the Far (Main) distance, L1, as shown in the table below.



-34W	
Near (Sub) distance adjustable range L2	
1 to 2 m 3.281 to 6.562 ft	
0.85 to 1.5 m 2.789 to 4.921 ft	
0.65 to 1 m 2.133 to 3.281 ft	
0.35 to 0.5 m 1.148 to 1.640 ft	
0.2 m 0.656 ft	

Discontinued as of Sept. 29, 2017

5) Detection may become unstable depending on the setting conditions or the sensing objects. After setting up this product, make sure to check operations using actual sensing objects. FIBER SENSORS

LASER SENSORS

> PHOTO-ELECTRIC SENSORS MICRO PHOTO-ELECTRIC SENSORS

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CX-400 CY-100

EX-10 EX-20 EX-30

EX-40 CX-440

EQ-30

EQ-500 MQ-W

RX-LS200

RT-610

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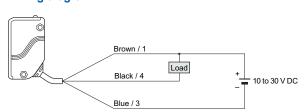
PLC

#### I/O CIRCUIT AND WIRING DIAGRAMS FIBER SENSORS LASER SENSORS **EQ-34** I/O circuit diagram Color code / Connector pin No. of the plug-in connector type AREA SENSORS Sensor circuit Load (Black / 4) Output 10 to 30 V DC LIGH CURTAINS 100 mA max. SAFETY COMPONENTS PRESSURE / FLOW SENSORS (Blue / 3) 0 V INDUCTIVE PROXIMITY SENSORS Internal circuit + → Users' circuit Symbols ... D : Reverse supply polarity protection diode PARTICULAR

ZD: Surge absorption zener diode

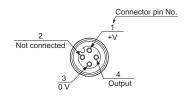
Tr: NPN output transistor

### Wiring diagram



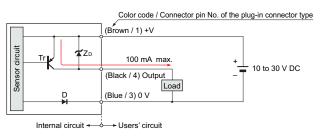
NPN output type

#### Connector pin position (Plug-in connector type)



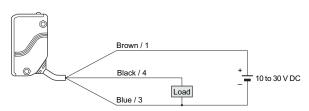
#### EQ-34-PN PNP output type

#### I/O circuit diagram

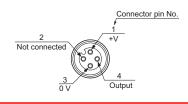


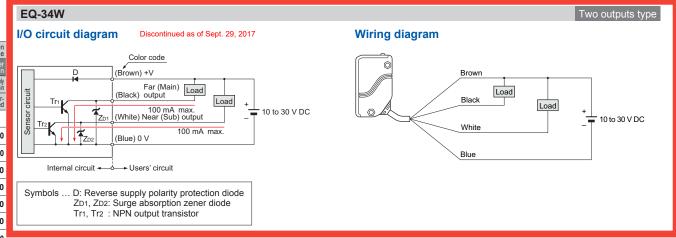
Symbols ... D : Reverse supply polarity protection diode ZD: Surge absorption zener diode Tr : PNP output transistor

#### Wiring diagram



### Connector pin position (Plug-in connector type)





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Amplifier-separated

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CY-100
EX-10
EX-20
EX-30
EX-40
CX-440
EQ-30
MQ-W
RX-LS200
RX
RT-610

Ramco National 1-800-280-6933

LASER SENSORS

AREA SENSORS

LIGHT CURTAINS /

SAFETY COMPONENTS PRESSURE I FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

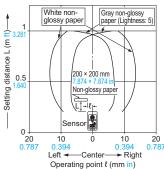
PARTICULAR USE SENSORS

## **SENSING CHARACTERISTICS (TYPICAL)**

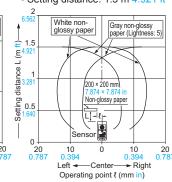
#### EQ-34 EQ-34-PN

#### Sensing fields

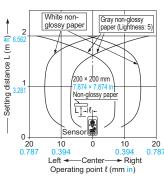
• Setting distance: 1 m 3.281 ft



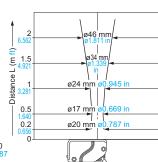
• Setting distance: 1.5 m 4.921 ft



• Setting distance: 2 m 6.562 ft



**Emitted beam** 



Correlation between color (200 × 200 mm 7.874 × 7.874 in non-glossy paper) and sensing range

Correlation between material (200 × 200 mm 7.874 × 7.874 in) and sensing range

SENSOR SIMPLE WIRE-SAVING UNITS

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Amplifie Built-in Power Supply Built-in

CX-400 CY-100

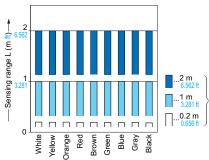
EX-10 FX-20

EX-30

EX-40 CX-440

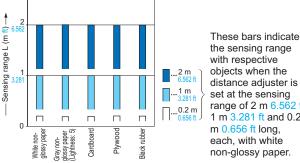
EQ-30 EQ-500 MQ-W

RX-I S200 RX RT-610



These bars indicate the sensing range with the respective colors when the distance adjuster is set at the sensing range of 2 m 6.562 ft, 1 m 3.281 ft and 0.2 m 0.656 ft long, each, with white color.

The sensing distance varies depending also on material.

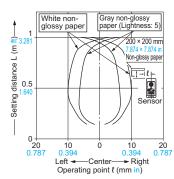


the sensing range with respective objects when the distance adjuster is set at the sensing range of 2 m 6.562 ft, 1 m 3.281 ft and 0.2 m 0.656 ft long, each, with white non-glossy paper.

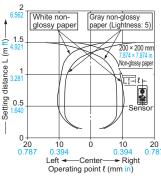
#### EQ-34W Discontinued as of Sept. 29, 2017

#### Sensing fields

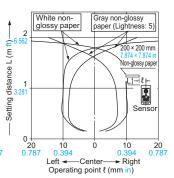
• Far (Main) [Far (Main) setting distance: 1 m 3.281 ft]



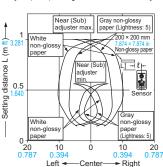
• Far (Main) [Far (Main) setting distance: 1.5 m 4.921 ft]



 Far (Main) [Far (Main) setting distance: 2 m 6.562 ft]

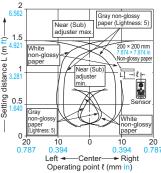


• Near (Sub) [Far (Main) setting distance: 1 m 3.281 ft]

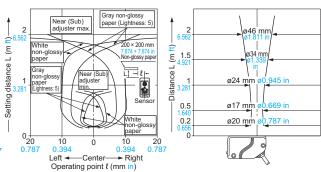


Operating point  $\ell$  (mm in)

 Near (Sub) [Far (Main) setting distance: 1.5 m 4.921 ft]



• Near (Sub) [Far (Main) setting distance: 2 m 6.562 ft]



**Emitted beam** 

Ramco National 1-800-280-6933

LASER SENSORS

MICRO PHOTO-ELECTRIC SENSORS

LIGHT

SAFETY COMPONENTS

PRESSURE FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULA

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## SENSING CHARACTERISTICS (TYPICAL)

Correlation between color (200 × 200 mm 7.874 × 7.874 in non-glossy paper) and sensing range Ę Far (Main) Near (Sub)

EQ-34W Discontinued as of Sept. 29, 2017

These bars indicate the sensing range with respective colors when the distance adjuster is set at the sensing range of Far (Main) 2 m 6.562 ft and Near (Sub) 1 m 3.281 ft long, each, with white color. The sensing distance varies depending also on

material.

Sensing

Stable dark

received condition

Stable dark

Unstable light

ON (Lights up)

OFF (Lights off)

Lights up

Lights off

Lights up

Lights off

Correlation between material (200 × 200 mm 7.874 × 7.874 in) and sensing range Sensing range L (m Far (Main) Near (Sub) 3lack rubber Gray non-glossy paper (Lightness: 5)

These bars indicate the sensing range with re-spective objects when the distance adjuster is set at the sensing range of Far (Main) 2 m 6.562 ft and Near (Sub) 1 m 3.281 ft long, each, with white non-glossy paper.

SIMPLE WIRE-SAVING UNITS WIRE-SAVING SYSTEMS

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CURING

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### PRECAUTIONS FOR PROPER USE

for personnel protection.

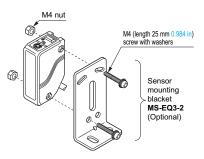
Refer to p.1458~ for general precautions.

 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.

· Never use this product as a sensing device

#### Mounting

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



**Stability indicator** 

• Since the EQ-30 series uses a 2-segment photodiode as its receiving element, and sensing is done based on the difference in the incident beam angle of the reflected beam from the sensing object, the output and the operation indicator operate according to the object distance. Further, the stability indicator shows the margin of the incident light intensity and not that of the object distance. Hence, the distance at which it lights up/off depends on the object reflectivity and is not at all related to the output operation. Do not use the sensor when the stability indicator is off (unstable light received condition), since the sensing will be unstable.

Setting distance

Stable light received condition

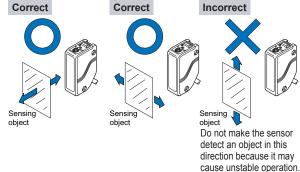
Sensina

Unstable light

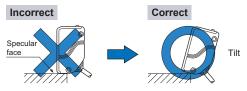
received condition

Sensing

 Care must be taken regarding the sensor mounting direction with respect to the object's direction of movement.



- · When detecting a specular object (aluminum or copper foil) or an object having a glossy surface or coating, please take care that there are cases when the object may not be detected due to a small change in angle, wrinkles on the object surface, etc.
- When a specular body is present below the sensor, use the sensor by tilting it slightly upwards to avoid wrong operation.



- If a specular body is present in the background, wrong operation may be caused due to a small change in the angle of the background body. In that case, install the sensor at an inclination and confirm the operation with the actual sensing object.
- Take care that some objects may produce a dead zone right (less than 0.1 m 0.328 ft) in front of the sensor.



CX-400 CY-100 EX-10 EX-20 EX-30 EX-40 CX-440

EQ-30 EQ-500 MQ-W RX-LS200

RX

RT-610

#### **Others**

(operation indicator) (In case of Detection-ON)

Stability indicato

Stability indicator

(Black non-glossy paper)

(White non-glossy paper)

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

Stable light received condition

 When connecting the mating cable to the plug-in connector type, the tightening torque should be 0.4 N·m or less.

Ramco National 1-800-280-6933

LASER SENSORS

AREA SENSORS

LIGHT CURTAINS /

SAFETY COMPONENTS

PRESSURE FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR

USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC FLECTRICITY VENTION

LASER MARKERS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

PLC

## DIMENSIONS (Unit: mm in)

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

Distance adjuster (2-turn)

Operation mode switch

Adjuster indicator

Adjuster indicator

Operation mode switch

Stability indicator (Green)
Operation indicator (Red)

2-M4 nut seats (on both sides)
receiving part

Center of 68 sensing 2677

Beam-emitting part

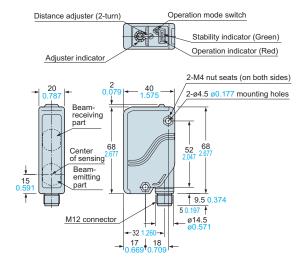
Beam-emitting part

Beam-emitting part

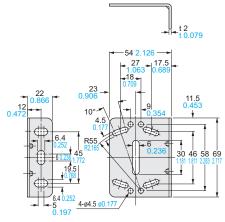
17 18 0.669 0.70 **EQ-34W** Discontinued as of Sept. 29, 2017 Far (Main) distance adjuster Operation mode switch Far (Main) output operation indicator (Red) Far (Main) adjuster indicator Stability indicator (Green) Near (Sub) distance adjuster Near (Sub) output operation indicator (Red) 2-M4 nut seats (on both sides) Beamreceiving 2-ø4.5 ø0.177 mounting holes Center of 68 95.8 ø0.228 cable, 2 m 6.562 ft long sensing Beam-15 emitting part 17 18 0.669 0.709 0.

EQ-34-J EQ-34-PN-J

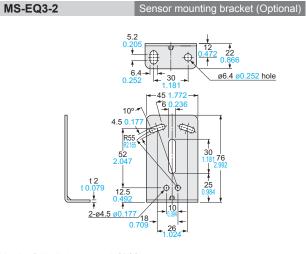
Sensor



Sensor mounting bracket (Optional)



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



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

Selection Guide Amplifier Built-in Power Supply Built-in Amplifierseparated

CX-400 CY-100 EX-10 EX-20 EX-30

EX-40 CX-440

EQ-30 EQ-500

MQ-W RX-LS200

RX RT-610

**MS-EQ3-1**