FIBER SENSORS

Related Information

LASER

MICRO PHOTOELECTRIC **SENSORS** 

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LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE /

FLOW SENSORS INDUCTIVE PROXIMITY **SENSORS** 

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Power Supply Built-in Amplifier-separated

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

General terms and conditions..... F-7

■ Glossary of terms / General precautions......P.1455~ / P.1458~

■ Sensor selection guide...... P.271~ ■ China's CCC mark...... P.1505









# Long range sensing capability to 2.5 m 8.202 ft Stable sensing unaffected by color or material

# Long sensing range

An adjustable range to 2.5 m 8.202 ft allows plenty of space for installation.

1 m 3.281 ft sensing range type also available. Adjust the volume easily to suit your needs when using at close range.

# Hardly affected by background objects

Because the sensor doesn't detect objects outside the preset sensing field by using the 2-segment photodiode adjustable range system, it will not malfunction even if someone walks behind the sensing object or machines or conveyors are in the background.

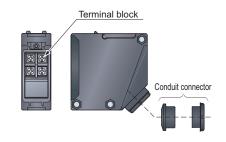
Note: Please note that malfunction may occur when there are specular objects or objects with a mirror-like surface in the background.

Refer to p.368 "Mounting" of "PRECAUTIONS FOR PROPER USE" section.

# MOUNTING

# Convenient terminal block type

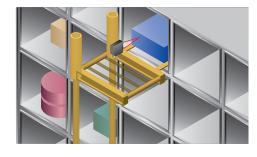
Cabling enabled by way of a terminal block that eliminates waste.



#### Impervious to variations color or angle

The optical system has been optimized. Since the sensor is hardly influenced at all by angles or the gloss of objects compared to the previous model, it is possible to detect both white objects and black objects at almost a constant distance.

The difference in sensing range between white non-glossy paper and gray non-glossy paper (lightness: 5) is approx 5% when set at a distance of 2 m 6.562 ft.



#### **OPERABILITY**

#### An easy to set adjuster with indicator

Equipped with a 2-turn adjuster with indicator, making it easy to set for short or long distances.

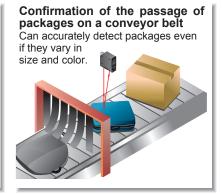


### APPLICATIONS

#### Level check within the hopper

The distance to the object can be set to enable residual amount sensing in the hopper regardless of color.





### **VARIETIES**

stable sensing.

## Equipped with both NPN and PNP outputs EQ-51

We've added a DC-voltage type with NPN and PNP transistor outputs all in one sensor. Its BGS / FGS function controls any background effects for more



#### Multi-voltage

Because it can function with 24 to 240 V AC and 12 to 240 V DC, almost any power supply anywhere in the world will do.

#### Convenient timer function models

Types with an ON-delay / OFF-delay timer available. OFF-delay, e.g. useful when the response of the connected device is slow, ON-delay, e.g. useful to detect objects that take a long time to move.

· Operation: ON-delay, OFF-delay

• Timer period: 0.1 to 5 sec.

(individual setting possible)

#### **FUNCTIONS**

# BGS / FGS functions make even the most challenging settings possible!

EQ-51<sub>0</sub>

EQ-50□

### The BGS function is best suited for background not present



When object and background are separated **BGS** (Background suppression) function

The sensor judges that an object is present when light is received at position A of the light-receiving element (2-segment element).

This is useful if the object and background are far apart.

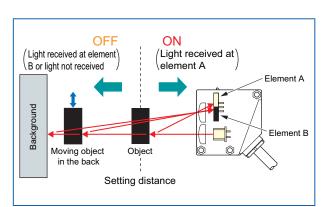
Not affected if the background color changes or someone passes behind the conveyor.

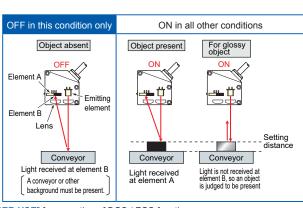


# When object and background are close

together When the object is glossy or uneven **FGS** (Foreground suppression) function The sensor judges that no object is present

when light is received at position B of the light receiving element (2-segment element) (The conveyor is detected). This function is useful if the object and the background are close together or if the object is glossy or uneven. However, sensing is impossible if there is no background (conveyor, etc.).





Note: Refer to "BGS / FGS function (p.369)" of "PRECAUTIONS FOR PROPER USE" for operation of BGS / FGS function.

FIBER SENSORS

LASER SENSORS

MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE /

FLOW SENSORS INDUCTIVE PROXIMITY

SENSORS PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPL F WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

**UV CURING** 

Selection Guide Amplifier Built-in

Power Supply Built-in Amplifier-separated

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

FIBER SENSORS

LASER SENSORS

MICRO PHOTO ELECTRIC PHOTO ELECTRIC SENSORS

LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE / FLOW SENSORS

AREA SENSORS

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SENSOR OPTIONS

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MEASURE-MENT SENSORS STATIC ELECTRICITY

LASER MARKERS PLC

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS

COMPONENTS

MACHINE
VISION
SYSTEMS

CURING SYSTEMS

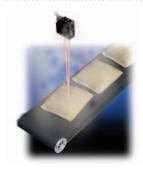
CX-400 CY-100 EX-10

EX-20 EX-40 CX-440 EQ-30 EQ-500 MQ-W RX-LS200 RX

# **ENVIRONMENTAL RESISTANCE**

# Little affected by contamination on lens

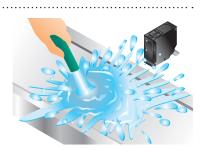
Even if the lens surface gets somewhat dirty from dust particles, there is very little change in the operation field, by usage adjustable range system.



# Waterproof

IP67 protection permits use in environments where water may splash.

Note: Sensor may detect a water drop itself, if it is exposed to water splashes during operation.



# ORDER GUIDE

Туре	Appearance	Sensing range	Model No.	Supply voltage	Output	Timer function
oltage With timer		0.1 to 2.5 m 0.328 to 8.202 ft	EQ-501	24 to 240 V AC ±10 %	Relay contact 1a	
			EQ-501T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)
Multi-voltage With tir		0.1 to 1.0 m 0.328 to 3.281 ft	EQ-502	or 12 to 240 V DC ±10 %		
With timer			EQ-502T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)
		0.1 to 2.5 m	EQ-511	12 to 24 V DC ±10 %	NPN open-collector transistor PNP open-collector transistor  Equipped with 2 outputs	
oltage With timer		0.328 to 8.202 ft	EQ-511T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)
DC-voltage With ti		0.1 to 1.0 m 0.328 to 3.281 ft	EQ-512			
With timer			EQ-512T			ON-delay / OFF-delay timer (Timer period: 0.1 to 5 sec.)

# **OPTION**

Designation	Model No.	Description				
Sensor mounting bracket	MS-EQ5-01	Foot / back angled mounting bracket				

#### Sensor mounting bracket

• MS-EQ5-01



Two M5 (length 30 mm 1.181 in) screws with washers and two nuts are attached.

# SPECIFICATIONS

		Multi-voltage				DC-voltage				LASER SENSORS
Туре		With timer With timer			With timer With timer				PHOTO-	
Iten	n Model No.	EQ-501	EQ-501T	EQ-502	EQ-502T	EQ-511	EQ-511T	EQ-512	EQ-512T	PHOTO- ELECTRIC SENSORS MICRO
Adjustable range (Note 2,3)		· ·	.656 to 8.202 ft		.656 to 3.281 ft		.656 to 8.202 ft		.656 to 3.281 ft	PHOTO- ELECTRIC SENSORS
Sensing range (at max. setting distance) (Note 3)			.328 to 8.202 ft		.328 to 3.281 ft		.328 to 8.202 ft		.328 to 3.281 ft	AREA SENSORS
Hysteresis (Note 3)					peration distance					
Supply voltage		24 to 240 V AC ±10 % or 12 to 240 V DC ±10 % Ripple P-P 10 % or less			12 to 24 V DC ±10 % Ripple P-P 10 % or less				LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE /	
Power / Current consumption		AC: 4 VA or less AC: 5 VA or less AC: 4 VA or less AC: 5 VA or less DC: 3 W or less DC: 4 W or less DC: 3 W or less			45 mA or less				FLOW SENSORS	
Output		Relay contact of Switching contact	apacity: 250 V A	AC 3 A (resistive		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)				INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS
		Electrical life: 100,000 or more switching operations (switching frequency 1,200 operations/hour)     Mechanical life: 50 million or more switching operations (switching frequency 18,000 operations/hour)				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)				SENSOR OPTIONS
										SIMPLE WIRE-SAVING UNITS
	Output operation		Switchable either Detection-ON or Detection-OFF							SYSTEMS
	Short-circuit protection				bie either Detect	Incorporated				MEASURE- MENT SENSORS
Res				ends on the sett	ing timer period)				na timer period)	STATIC ELECTRICITY PREVENTION
Response time Operation indicator		20 ms or less (For <b>EQ-50</b> □ <b>T</b> depends on the setting timer period) 2 ms or less (For <b>EQ-51</b> □ <b>T</b> depends on the setting timer  Orange LED (lights up when the output is ON)							PREVENTION DEVICES	
Stability indicator		Green LED (lights up under stable operating condition)								LASER MARKERS
Distance adjuster									PLC	
Sensing mode		Switchable either BGS or FGS function							HUMAN	
Timer function			Incorporated with variable (0.1 to 5 sec.) ON-delay / OFF-delay timer		Incorporated with variable (0.1 to 5 sec.) ON-delay / OFF-delay timer		Incorporated with variable (0.1 to 5 sec.) ON-delay / OFF-delay timer		Incorporated with variable (0.1 to 5 sec.) ON-delay / OFF-delay timer	ENERGY CONSUMPTION VISUALIZATION COMPONENTS
Automatic interference prevention function						ed (Note 4)				COMPONENTS
Protection		IP67 (IEC)							MACHINE VISION SYSTEMS	
Ambient temperature		-20 to +55 °C -4 to +131 °F (No dew condensation or icing allowed), Storage: -30 to +70 °C -22 to +158 °F								UV
Ambient illuminance			35 to 85 % RH, Storage: 35 to 85 % RH							CURING SYSTEMS
		Incandescent light: 3,000 & at the light-receiving face								
⊆ .	Voltage withstandability	2,000 V AC for one min. among supply terminals, non-supply metal parts and relay contact output terminals, 1,000 V AC for one min. between relay contacts			1,000 V AC for one min. between all supply terminals connected together and enclosure					
Environmental	Insulation resistance				more, with 250 V DC megger between all supply connected together and enclosure			Selection Guide Amplifier Built-in		
	Vibration resistance	e 10 to 55 Hz frequency, 1.5 mm 0.059 in amplitu			ude in X, Y and Z directions for two hours each				Power Supply Built-in	
Shock resistance		500 m/s² acceleration (50 G approx.) in X, Y and Z directions for three times each								Amplifier- separated
Emitting element		Infrared LED (Peak emission wavelength: 855 nm 0.034 mil, modulated)								
Receiving element		2-segment photodiode								CX-400
Material		Enclosure: ABS, Front cover: Polycarbonate, Display cover: Polycarbonate								CY-100
Connection method		Screw-on terminal connection								EX-10
Cable		Suitable for round cable ø9 to ø11 mm ø0.354 to ø0.433 in								EX-20
Cable length		Total length up to 100 m 328.084 ft is possible with 0.3 mm², or more, cabtyre cable.							EX-30 EX-40	
Weight		Net weight: 100 g approx. Net weight: 85 g approx.						CX-440		
Accessory		Adjusting screwdriver: 1 pc.							EQ-30	
Note	s: 1) Where measurement (	onditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.								

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 adjustable range stands for the maximum sensing range which can be set with the distance adjuster. The sensor can also detect an object 0.1 m 0.328 ft, or more, away.
- 3) The adjustable range, sensing range and hysteresis are specified for white non-glossy paper ( $200 \times 200 \text{ mm } 7.874 \times 7.874 \text{ in}$ ) as the object.
- 4) Note that the detection may be unstable depending on the mounting conditions or the sensing object. In the state that this product is mounted, be sure to check the operation with the actual sensing object. Refer to "Automatic interference function (p.368)" of "PRECAUTIONS FOR PROPER USE" for details.

FIBER SENSORS

HUMAN MACHINE INTERFACES

MACHINE VISION SYSTEMS

Power Supply Built-in

EQ-500

MQ-W RX-LS200

RX RT-610 FIBER SENSORS

> LASER SENSORS

PHOTO ELECTRIC SENSORS MICRO

MICRO
PHOTOELECTRIC
SENSORS

AREA
SENSORS

LIGHT
CURTAINS/
SAFETY
COMPONENTS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS SIMPLE WIRE-SAVING UNITS

MIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS PLC

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS

COMPONENTS

MACHINE
VISION
SYSTEMS

CURING SYSTEMS

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

EX-10 EX-20 EX-30 EX-40

CX-400

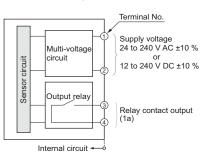
EQ-30
EQ-500
MQ-W
RX-LS200
RX
RT-610

CX-440

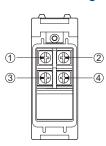
# I/O CIRCUIT AND WIRING DIAGRAMS

#### EQ-501(T) EQ-502(T)

#### I/O circuit diagram

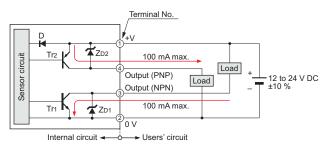


# Terminal arrangement diagram

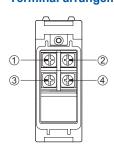


#### EQ-511(T) EQ-512(T)

#### I/O circuit diagram



# **Terminal arrangement diagram**



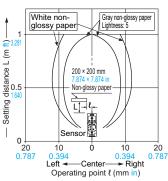
Symbols ... D: Reverse supply polarity protection diode ZD1, ZD2: Surge absorption zener diode Tr1: NPN output transistor Tr2: PNP output transistor

# SENSING CHARACTERISTICS (TYPICAL)

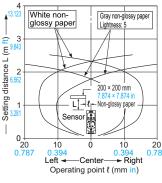
#### EQ-501(T) EQ-511(T)

#### Sensing fields

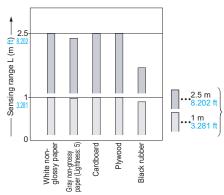
Setting distance: 1 m 3.281 ft



• Setting distance: 2.5 m 8.202 ft



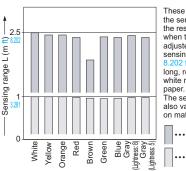
Correlation between material (200 × 200 mm 7.874 × 7.874 in) and sensing range



These bars indicate the sensing range with the respective objects when the distance adjuster is set to a sensing range of 2.5 m 8.202 ft / 1 m 3.281 ft long, respectively, with white non-glossy paper.

#### Correlation between color

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

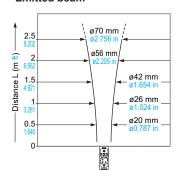


These bars indicate the sensing range with the respective colors when the distance adjuster is set to a sensing range of 2.5 m 8.202 ft / 1 m 3.281 ft long, respectively, with white non-glossy paper.

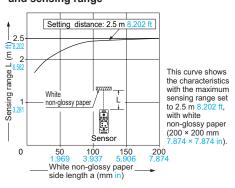
The sensing range also varies depending on material.



#### **Emitted beam**



# Correlation between sensing object size and sensing range

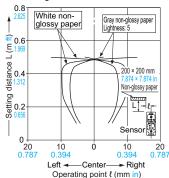


# SENSING CHARACTERISTICS (TYPICAL)

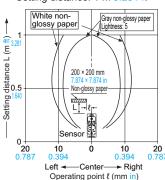
#### EQ-502 (T) EQ-512 (T)

#### Sensing fields

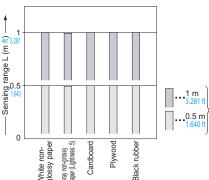
• Setting distance: 0.5 m 1.640 ft



• Setting distance: 1 m 3.281 ft



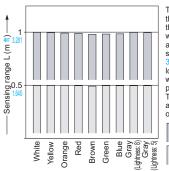
Correlation between material (200 × 200 mm 7.874 × 7.874 in) and sensing range



Gray n paper

These bars indicate the sensing range with the respective objects when the distance adjuster is set to a sensing range of 1 m 3.281 ft / 0.5 m 1.640 long, respectively, with white non-glossy

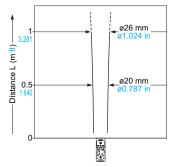
Correlation between color (200 × 200 mm 7.874 × 7.874 in non-glossy paper) and sensing range



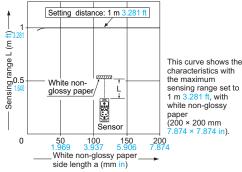
These bars indicate the sensing range with the respective colors when the distance adjuster is set to a sensing range of 1 m 3.281 ft / 0.5 m 1.640 long, respectively, with white non-glossy paper.
The sensing range on material.



**Emitted beam** 



Correlation between sensing object size and sensing range



# PRECAUTIONS FOR PROPER USE

Refer to p.1458~ for general precautions.

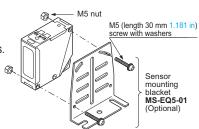


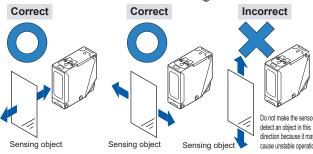
· Never use this product as a sensing device for personnel protection.

· 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

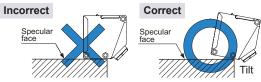
- The tightening torque should be 0.8 N·m or less.
- Care must be taken regarding the sensor mounting direction with respect to the object's direction of movement.





- When detecting a specular object (aluminum or copper foil, etc.) or an object having a glossy surface or coating, please note that there are cases when the object may not be detected due to a change in angle, wrinkles on the object surface, etc.
- · If a specular body is present in the background, faulty 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.

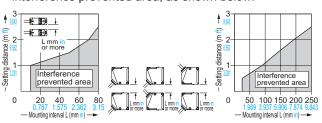
· When a specular body is present below the sensor, use the sensor by tilting it slightly upwards to avoid faulty operation.



- · This product is not easily affected by the reflected light intensity since this sensor is the adjustable range reflective type. When the reflected light intensity is remarkably low, the sensing range may be affected. In that case, mount the sensor, while checking light-up of the stable indicator (green).
- The mounting screws of the terminal cover and display cover should certainly be tightened to maintain water-resistance; the tightening torque of the screws should be 0.3 to 0.5 N·m.

#### **Automatic interference prevention function**

· When the sensors are mounted closely, use them in the interference prevented area, as shown below.



· Note that the detection may be unstable depending on the mounting conditions or the sensing object to be used. In the state that this product is mounted, be sure to check the operation with the actual sensing object to be used.

FIBER SENSORS

LASER SENSORS

AREA SENSORS

COMPONENTS

PRESSURE FLOW SENSORS INDUCTIVE PROXIMITY SENSORS

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SENSOR OPTIONS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

DEVICES

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UV CURING SYSTEMS

Selectio Guide Power Supply Built-in

CX-400 CY-100

EX-10 EX-20

EX-30 EX-40

CX-440 EQ-30

EQ-500

RX-LS200

RX RT-610

EQ-30
EQ-500
MQ-W
RX-LS200
RX
RT-610

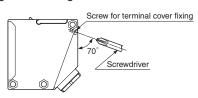
### PRECAUTIONS FOR PROPER USE

Refer to p.1458~ for general precautions.

#### Wiring

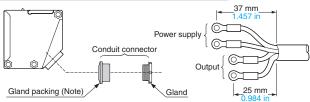
- Check all wiring before applying power since incorrect wiring may damage the internal circuit. Also, carefully tighten the terminal screws so that the wires of adjacent terminals do not touch.
- The mounting hole for the terminal cover fixing screws inclines 70 degrees to the terminal cover, as shown in the figure below.

To avoid damaging this product or screw, take care when tightening or loosening a screw.



- To maintain water-resistance, the cable should have an outer diameter between ø9 to ø11 mm ø0.354 to ø0.433 in with a smooth covering material that allows the attached conduit connector to be securely tightened; the tightening torque of the screw should be of 1.5 to 2.0 N·m.
- If an external surge voltage exceeding 4 kV is impressed (DC-voltage type: 1 kV), the internal circuit will be damaged, and a surge suppressing element should be used.
- · Prepare the cable end as shown below.

#### Conduit connector construction and cabling



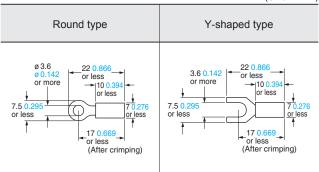
Note: When assembling the conduit connector, pay attention to the direction of the gland packing.

Furthermore, in order to maintain water-resistance, fit the gland packing such that the seating surface of the gland packing contacts the packing holder part of the terminal cover evenly.

- The size of conduit is M20  $\times$  1.5 mm 0.787 in.
- If pressure terminals are to be used, affix the connected pressure terminals to a terminal (M3.5 screw).

#### Dimensions of the suitable crimp terminals

(Unit: mm in)

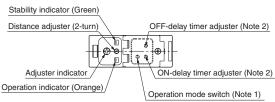


Note: Use crimp terminals with insulating sleeves.

Recommended crimp terminal: Nominal size 1.25 × 3.5 0.049 × 0.138.

 $\bullet$  The tightening torque for the terminal screws should be 0.3 to 0.5 N·m.

#### Part description



Notes: 1) The operation mode switch of the DC-voltage type is the DIP switch.

Refer to 'DC-voltage type' of 'Operation mode switch' for details.

2) Incorporated on EQ-5¬T only.

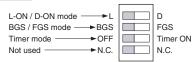
#### **Operation mode switch**

#### Multi-voltage type (L-ON / D-ON mode only)

Operation mode switch	Description
	Detection-ON mode is obtained when the switch is turned fully clockwise (L side).
	Detection-OFF mode is obtained when the switch is turned fully counterclockwise (D side).

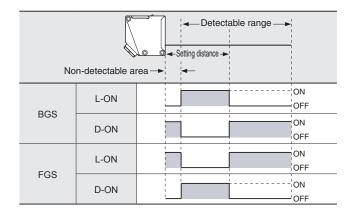
Note: Turn the operation mode switch gradually and lightly with the attached screwdriver. Turning with excessive strength will cause damage to the adjuster.

#### DC-voltage type



#### **BGS / FGS function (DC-voltage type only)**

- DC-voltage type sensor incorporates BGS / FGS function.
   Select either the BGS or FGS function depending on the positions of the background and sensing object.
- BGS / FGS function is set with the operation mode switch.
- FGS function is used when the sensing object contacts the background (conveyor, etc).
- Depends on a selection of either BGS or FGS function, the output operation changes as follows.



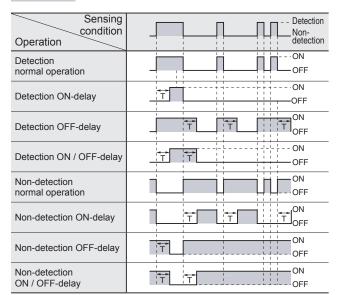
### PRECAUTIONS FOR PROPER USE

Refer to p.1458~ for general precautions.

#### Timer function (EQ-5□T only)

- EQ-5□T incorporates an OFF-delay timer, which is useful when the response of the connected device is slow, etc., and an ON-delay timer, which is useful for detecting objects that move slowly, for example.
- The OFF-delay and ON-delay timers can be used simultaneously.
- · For DC-voltage type, set the DIP switch for the timer mode to 'Timer ON' side.

#### Time chart

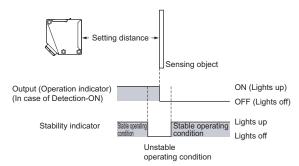


Timer period: T = 0.1 to 5 sec. (variable)

#### **Stability indicator**

• Since the EQ-500 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 (orange) operate according to the object distance.

Furthermore, the stability indicator (green) shows the margin of the setting distance.



#### **Others**

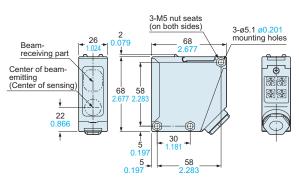
- · Do not use during the initial transient time (50 ms) after the power supply is switched on.
- · Its distance adjuster is mechanically operated. Do not drop; avoid other shocks.

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

# **DIMENSIONS (Unit: mm in)**

# EQ-501(T) EQ-502(T) EQ-511(T) EQ-512(T)

#### Stability indicator (Green) Operation mode switch (Note 1) OFF-delay timer adjuster (Note 2) Distance adjuster (2-turn Adjuster indicator ON-delay timer adjuster (Note 2) Operation indicator (Orange)

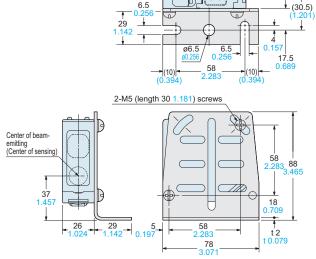


Notes: 1) The operation mode switch of the DC-voltage type is the DIP switch

2) For EQ-5 T only.

#### Assembly dimensions with sensor mounting bracket MS-EQ5-01 (Optional) (Foot angled mounting)

6.5



Material: Cold rolled carbon steel (SPCC)

Two M5 (length 30 mm 1.181 in) screws with washers and two nuts are attached.

FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS

AREA SENSORS

COMPONENTS PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

FA COMPONENTS

MACHINE

VISION SYSTEMS

Power Supply

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