OMRON

Photoelectric switch with built-in amplifier (long distance) in plastic housing

E3G

E3G

Retroreflective Models
- Sensing Distance of 10 m, with polarized light to detect shiny objects.
- Operation stability monitored ba the stability indicator.

Distance-setting Models
- Distance setting models with a long 2 m sensing distance incorporate a teaching function.
- Set sensing area (zone setting) function allows detection of shiny objects with uneven surface.

Common Features
- Meets IEC IP67 requirements.
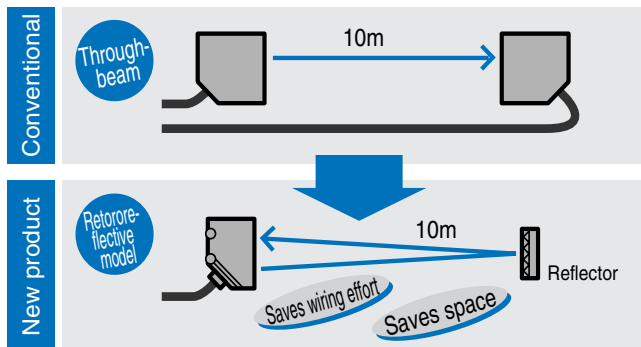- M12 rotary connector, pre-wired or terminal block connection
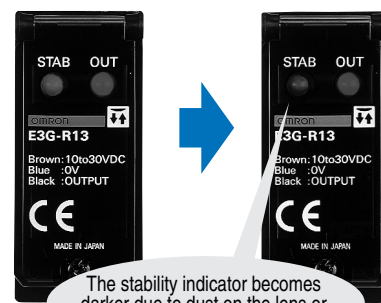

CE

Features

Retroreflective Models

Though the Size Is Compact, the Sensing Distance Is as Long as 10m.

Replace the conventional through-beam model with the retroreflective model for saving wiring and installation space.

Conventional
Through-beam
10m

New product
Retroreflective model
10m
Reflector
Saves wiring effort
Saves space

Easy monitoring of Operation stability by means of stability indicator.

STAB OUT
omron
E3G-R13
Brown:10to30VDC
Blue :0V
Black :OUTPUT
CE
MADE IN JAPAN

STAB OUT
omron
E3G-R13
Brown:10to30VDC
Blue :0V
Black :OUTPUT
CE
MADE IN JAPAN

The stability indicator becomes darker due to dust on the lens or improper optical axis adjustment.

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Distance-setting

Distance-setting Models with a Long 2-m Sensing Distance Incorporate a Teaching Function

Sensitivity adjustment without being influenced by background objects is possible by simply pressing a button. Useful for teaching without a sensing object.
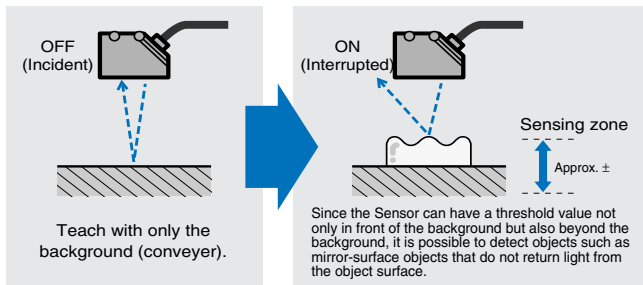
Easy Optimum Sensing Distance Adjustments

Teaching with and without a sensing object ensures highly accurate detection without influence from the background.

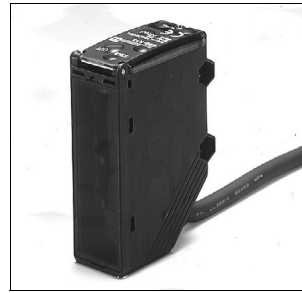| Without sensing object	With sensing object

ONE PUSH   ONE PUSH
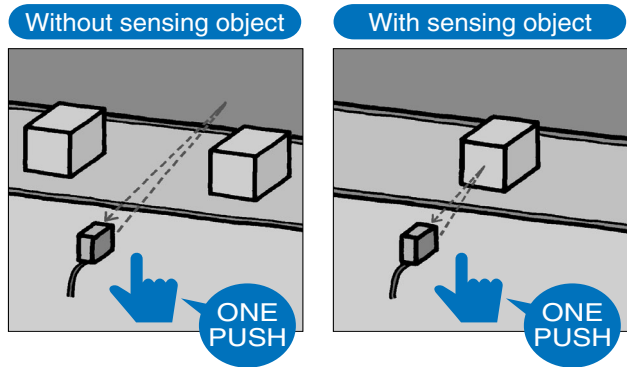
Zone Setting Function

Effective for detecting glossy objects, which were difficult to detect with conventional sensors. (D-ON)

OFF (Incident)

ON (Interrupted)

Sensing zone

Approx. ±

Teach with only the background (conveyer).

Since the Sensor can have a threshold value not only in front of the background but also beyond the background, it is possible to detect objects such as mirror-surface objects that do not return light from the object surface.

General

Select either transistor (NPN/PNP selectable) or relay output. Three connection methods (plus a model with a timer function). Select either a DC power supply or a variable power
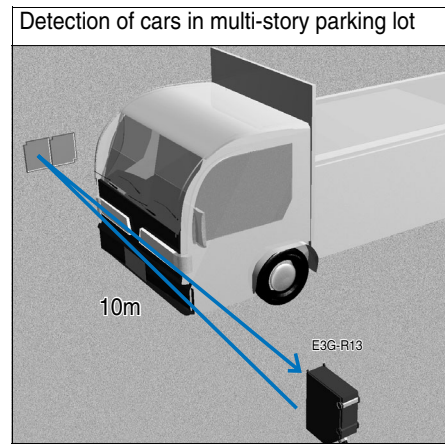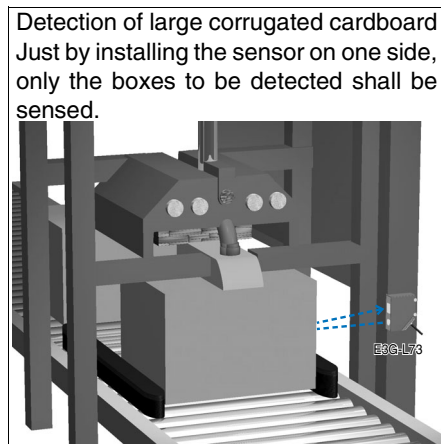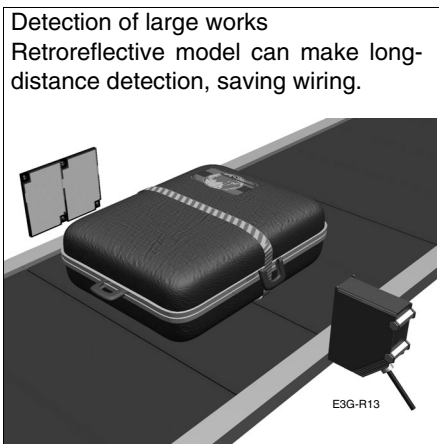supply: 24 V to 240 VAC or 12 to 240 VDC).

IEC Standard IP67 Water Proofing

M12 Rotary Connector Available on Models with DC Power Supplies

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Application

Detection of large works
Retroreflective model can make long-distance detection, saving wiring.

E3G-R13

Detection of large corrugated cardboard
Just by installing the sensor on one side, only the boxes to be detected shall be sensed.

E3G-L73

Detection of cars in multi-story parking lot

10m

E3G-R13

Standard Photoelectric Sensors

OMRON

E3G
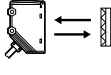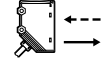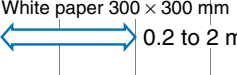
Ordering Information

Sensors
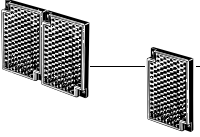
☐ Red light   ☐ Infrared light

Sensor type	Shape	Connection method	Sensing distance	Timer function	Model	
					NPN/PNP selector	Relay contact output
Retroreflective Models (with M.S.R. Function)		Pre-wired	10m [500mm]*	---	E3G-R13-G	---
		Connector type			E3G-R17-G	
		Terminal block		ON or OFF delay 0 to 5 s (adjustable)	---	E3G-MR19-G
						E3G-MR19T-G
Distance-setting		Pre-wired	White paper 300 × 300 mm 0.2 to 2 m	---	E3G-L73	---
		Connector type			E3G-L77	
		Terminal block		ON or OFF delay 0 to 5 s (adjustable)	---	E3G-ML79-G
						E3G-ML79T-G

* Values in parentheses indicate the minimum required distance between the sensor and reflector.

Accessories (Order Separately)
Reflectors

Shape	Sensing distance (typical)	Model	Quantity	Remarks
	10 m (500 mm) *	E39-R2	1	---
	6 m (100 mm) *	E39-R1S	1	---

* Values in parentheses indicate the minimum required distance between the sensor and reflector.

Terminal Protection Cover for Side-pullout Cable
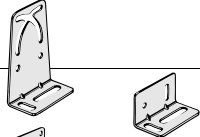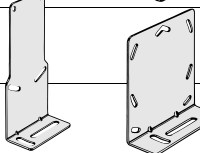
Shape	Model	Quantity	Applicable type	Remarks
	E39-L129-G	1	E3G-MR19(T)-G E3G-ML79(T)-G	Provided with rubber bushing and cap for pullout prevention in horizontal direction

Mounting Brackets

Shape	Model	Quantity	Applicable type	Remarks
	E39-L131	1	E3G-R1☐ E3G-L7☐	---
	E39-L132	1		Rear-mounting use
	E39-L135	1	E3G-MR19(T)-G E3G-ML79(T)-G	Cable pulled out downwards
	E39-L136	1		---

Sensor I/O Connectors

Cable	Shape	Cable length		Model
Standard cable	Straight	2 m	3-wire type	XS2F-D421-DC0-A
		5 m		XS2F-D421-GC0-A
	L-shaped	2 m		XS2F-D422-DC0-A
		5 m		XS2F-D422-GC0-A

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Rating/Performance

Sensor type	Retroreflective Models (M.S.R. function)				Distance-setting			
Item Model	E3G-R13-G	E3G-R17-G	E3G-MR19-G	E3G-MR19T-G	E3G-L73	E3G-L77	E3G-ML79-G	E3G-ML79T-G
Sensing distance	10 m (500 mm) * (When using the E39-R2)				0.2 to 2 m (White paper 300 x 300 mm)			
Setting distance	---				0.5 to 1.2 m (White paper 300 x 300 mm)			
Standard sensing object	Opaque: 80 dia. min.				---			
Hysteresis (typical)	---				10% of setting distance			
Directional angle	Sensor: 1° to 5°				---			
Reflectivity characteristics (black/white error)	---				±10% max. (At detection distance of 1m)			
Light source (wave length)	Red LED (700 nm)				Infrared LED (860 nm)			
Spot size	---				70 mm dia. max. (At detection distance of 1m)			
Power supply voltage	10 to 30 VDC [Ripple (p-p) 10% included]		12 to 240 VDC ±10% ripple (p-p) : 10% max. 24 to 240 VAC ±10% 50/60 Hz		10 to 30 VDC (Ripple (p-p) 10% included)		12 to 240 VDC ±10% ripple (p-p) : 10% max. 24 to 240 VAC ±10% 50/60 Hz	
Current/Power consumption	50 mA max.		2 W max.		60 mA max.		2 W max.	
Control output	Load supply voltage 30 VDC max., load current 100 mA max. (residual voltage NPN output: 1.2 V max., PNP output: 2 V max.) Open collector output type (NPN/PNP output switch selectable) L-ON/ D-ON switch selectable		Relay output: Switch-over contact 250 VAC 3A (cos =1) max. 30 VDC 3A max. L-ON/D-ON switch selectable		Load supply voltage 30 VDC max., load current 100 mA max. (residual voltage NPN output: 1.2 V max., PNP output: 2 V max.) Open collector output type (NPN/PNP output switch selectable) L-ON/ D-ON switch selectable		Relay output: Switch-over contact 250 VAC 3A (cos =1) max. 30 VDC 3A max. L-ON/D-ON switch selectable	
Life expectancy (relay output) Mechanical	---		50,000,000 operations min. (switching frequency: 18,000 operations/h)		---		50,000,000 operations min. (switching frequency: 18,000 operations/h)	
Life expectancy (relay output) Electrical	---		100,000 operations min. (switching frequency: 1,800 operations/h)		---		100,000 operations min. (switching frequency: 1,800 operations/h)	
Protective circuits	Reverse polarity protection, output short-circuit protection, mutual interference prevention		Mutual interference prevention function		Reverse polarity protection, output short-circuit protection, mutual interference prevention		Mutual interference prevention function	
Response time	Operation/reset: 1 ms each		Operation/reset: 30 ms each		Operation/reset: 5 ms each		Operation/reset: 30 ms each	
Sensitivity adjustment	One-turn adjuster				Teaching method (NORMAL mode/ZONE mode)			
Timer function	---		ON delay/ OFF delay 0 to 5 s (Adjuster variable system)		---		ON delay/ OFF delay 0 to 5 s (Adjuster variable system)	
Ambient illuminance	Incandescent lamp: 3,000 lux max. Sunlight 10,000 lux max.							
Ambient temperature	Operating: -25°C to 55°C, Storage: -30°C to 70°C (with no icing or condensation)							
Ambient humidity	Operating: 35% to 85%RH, Storage: 35% to 95%RH (with no condensation)							
Insulation resistance	20 M min. at 500 VDC							
Dielectric strength	1,000 VAC at 50/60 Hz for 1 minute		2,000 VAC at 50/60 Hz for 1 minute		1,000 VAC at 50/60 Hz for 1 minute		2,000 VAC at 50/60 Hz for 1 minute	
Vibration resistance	Destruction: 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions							

* Values in parentheses indicate the minimum required distance between the sensor and reflector.

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Sensor type	Retroreflective Models (M.S.R. function)				Distance-setting			
Item Model	E3G-R13-G	E3G-R17-G	E3G-MR19-G	E3G-MR19T-G	E3G-L73	E3G-L77	E3G-ML79-G	E3G-ML79T-G
Shock resistance	500 m/s² 3 times in each of X, Y and Z directions							
Protective structure	IEC 60529 IP67 (with Protective Cover attached)							
Connection method	Pre-wired (standard length: 2 m)	M12 Connector	Terminal block		Pre-wired (standard length: 2 m)	M12 Connector	Terminal block	
Weight (Packed state)	Approx. 150 g	Approx. 50 g	Approx. 150 g			Approx. 50 g	Approx. 150 g	
Mate-rial	Case	PBT (polybutylene terephthalate)							
	Lens	Acrylics (PMMA)							
	Mounting Brackets	Stainless steel (SUS304)							
Accessories		Instruction sheet, and screwdriver for adjustment				Instruction sheet			

Output Circuit Diagram

NPN output

Model	Operating status of output transistor	Timing chart	Mode selection switch	Output circuit
E3G-R13-G E3G-R17-G E3G-L73 E3G-L77	Light ON		L ON (LIGHT ON)	
	Dark ON		D ON (DARK ON)	

PNP output

Model	Operating status of output transistor	Timing chart	Mode selection switch	Output circuit
E3G-R13-G E3G-R17-G E3G-L73 E3G-L77	Light ON		L ON (LIGHT ON)	
	Dark ON		D ON (DARK ON)	

E3G

E3G

Relay contact output

Timer function	Model	Timing chart	Mode selection switch	Output circuit
None	E3G-MR19-G E3G-ML79-G	Incident / Interrupted / Operation indicator (orange) ON OFF ON OFF / Ta	L ON (LIGHT ON)	①Tc ②Ta Contact output (G6C Relay built in) ③Tb Main circuit ④ Power supply ⑤ 24 to 240 VAC 12 to 240 VDC (no polarity order restricted)
		Incident / Interrupted / Operation indicator (orange) ON OFF ON OFF / Ta	D ON (DARK ON)	
ON or OFF delay 0 to 5 s (adjustable)	E3G-MR19T-G E3G-ML79T-G	T₁ T₁ T₂ T₂ T₂ T₂ T₂ T₁ Incident / Interrupted ON OFF / Td₁ Td₁ / ON delay * / OFF delay * ON OFF / Td₂ Td₂ Td₂	L ON (LIGHT ON)	
		T₁ T₁ T₂ T₂ T₂ T₂ T₂ T₁ Incident / Interrupted ON OFF / Td₁ Td₁ Td₁ / ON delay * / OFF delay * ON OFF / Td₂ Td₂	D ON (DARK ON)	

* For ON and OFF, delay timers vary independently.
Note: Td1, Td2: Delay time (0 to 5 s), T1: Any period longer than delay time, T2: Any period shorter than delay time

Connectors (Sensor I/O connectors)

Terminal No.   Wire colors
①②③④   Brown Blue Black

XS2F-D421-DC0-A
XS2F-D421-GC0-A
XS2F-D422-DC0-A
XS2F-D422-GC0-A
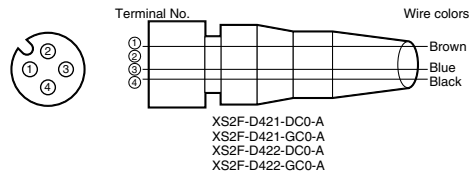
Class	Wire, outer jacket color	Connector pin No.	Application
For DC	Brown	①	Power supply (+V)
	-	②	-
	Blue	③	Power supply (0 V)
	Black	④	Output

Note: Pin 2 is not used.

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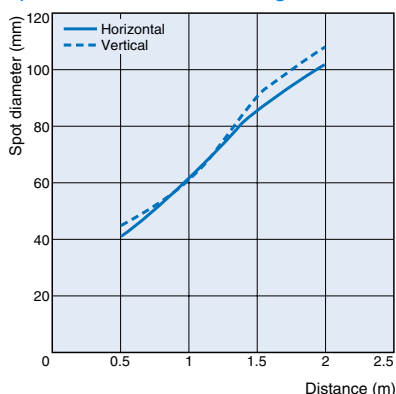# Characteristic data (typical)

E3G-R/MR Retroreflective Models
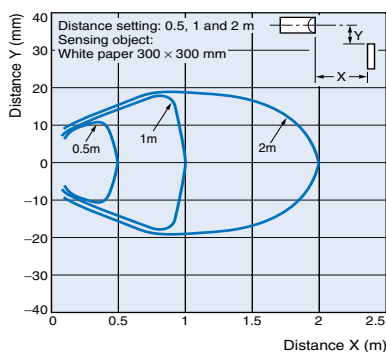
Operating Range
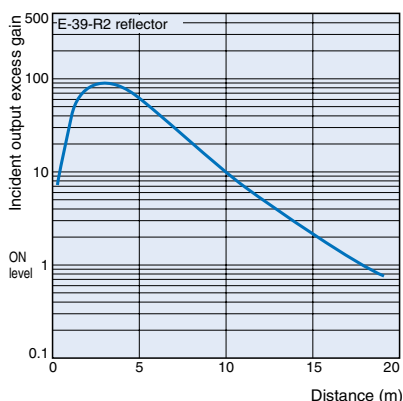
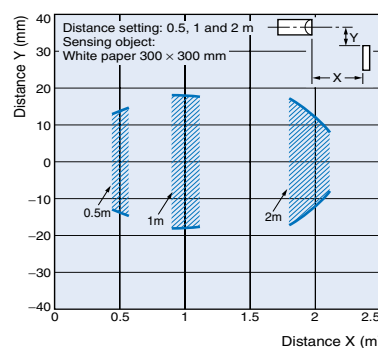## E3G-L/ML Distance-setting Models
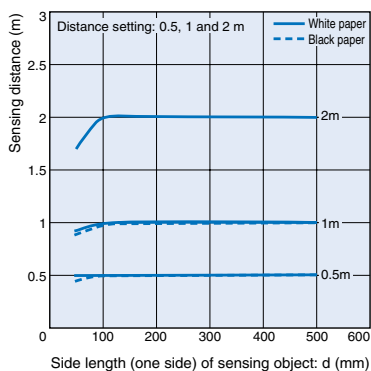
Spot Diameter vs. Sensing Distance

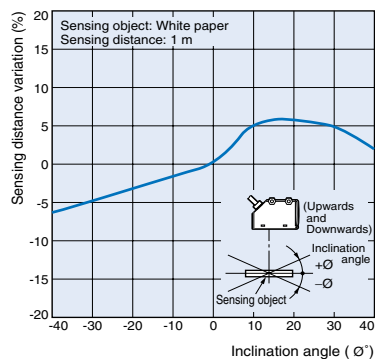### Sensing Zone (in NORMAL mode)

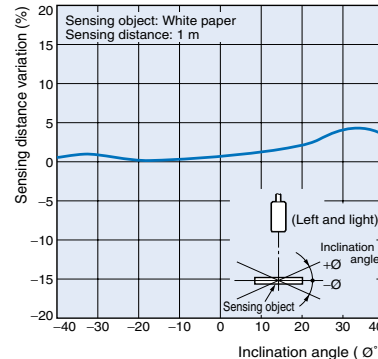### Sensing Zone in ZONE Mode
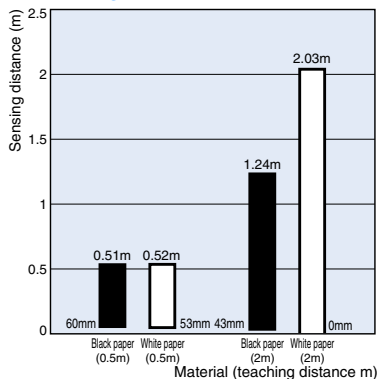

Sensing Object Size vs. Setting Distance

Sensing Object Angle Characteristics (Up and Down)

Sensing Object Angle (Left and Right)

Close-range Characteristics

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Nomenclature

Retroreflective Models

E3G-R13-G (Pre-wired model)
E3G-R17-G (Connector model)

Stability indicator (Green)

Sensitivity adjuster

Operation indicator (Orange)

PNP/NPN selector

L.ON/D.ON selector

E3G-MR19-G (Terminal Block Model)
E3G-MR19T-G (Terminal Block Model with Timer)

Sensitivity adjuster

ON-delay adjuster *

OFF-delay adjuster *

Operation indicator (Orange)

Stability indicator (Green)

L.ON/D.ON selector

*   The ON or OFF de-lay adjuster is not available with the E3G-MR19-G.

Distance-setting

E3G-L73 (Pre-wired model)
E3G-L77 (Connector model)

Indicators
Stability indicator (Green)
Teaching indicator
(Red and green)

PNP/NPN selector

NORMAL/ZONE selector

Operation indicator (Orange)

Mode selector
TEACH/
RUN(D•ON)/
RUN(L•ON)

TEACH button
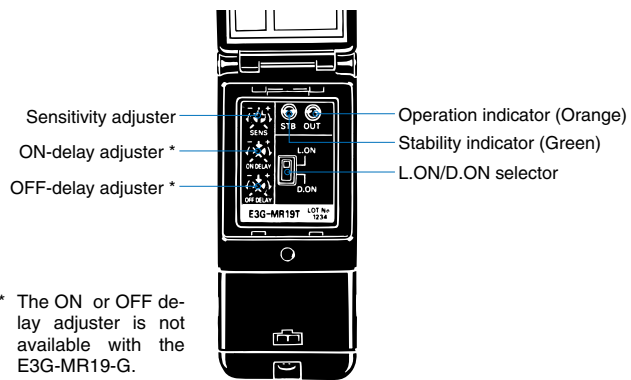
E3G-ML79-G (Terminal Block Model)
E3G-ML79T-G (Terminal Block Model with Timer)

Indicators
Stability indicator (Green)
Teaching indicator
(Red and green)

TEACH button

ON-delay adjuster *

OFF-delay adjuster *

Operation indicator (Orange)

TEACH/RUN selector

L-ON/D-ON selector

NORMAL/ZONE selector
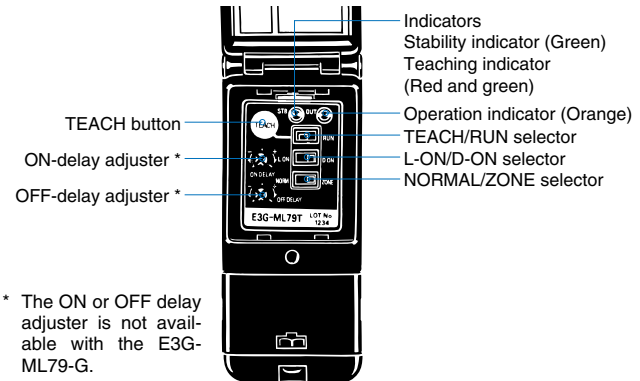
*   The ON or OFF delay adjuster is not avail-able with the E3G-ML79-G.

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Operation

E3G-L/ML

Adjustment Steps

Pro-ce-dure	Operation
1	Install, wire, and turn on the Sensor.
2	Perform distance setting (teaching). Refer to "Distance Setting (Teaching)".
3	Check that the mode selector is set to RUN.

Distance Setting (Teaching)

Select the most appropriate teaching method in reference to the following descriptions.

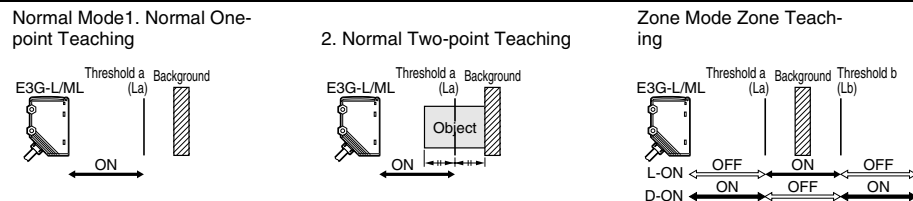| Application	Teaching without sensing objects (i.e., Teaching the background).	Setting a threshold in the middle between the background and sensing object for operation.	Detection of glossy objects in front of the background.	Setting the maximum sensing distance of the Sensor.
Teaching	Normal one-point teaching	Normal two-point teaching	Zone teaching	Maximum distance setting (in normal mode)
Setting method	Press the TEACH button with the background object.	Press the TEACH button with the background object.	Press the TEACH button with the background object (conveyor, etc.).	Press the TEACH button for longer than three seconds.
Set threshold	Threshold (a) is set to a distance in front of the background of 20% of the background distance.	Threshold (a) is set approximately in the middle between the background and sensing object.	Thresholds (a and b) are set in the sensing distance on condition that the difference between these thresholds is approximately 10% of the whole sensing distance.	The threshold is set in such manner that the stability indicator will turn ON at approximately 2 m if the sensing object is white paper.
Output ON range	The output is ON between the Sensor and La.	The output is ON between the Sensor and La.	The output is ON between La and Lb.	The output is ON whenever the sensing object is located between the Sensor and at a distance of 2.2 m.

La: Distance equivalent to threshold (a)
Lb: Distance equivalent to threshold (b)

Normal Mode 1. Normal One-point Teaching

E3G-L/ML — Threshold a (La) — Background — ON

2. Normal Two-point Teaching

E3G-L/ML — Threshold a (La) — Background — Object — ON

Zone Mode Zone Teaching

E3G-L/ML — Threshold a (La) — Background — Threshold b (Lb)
L-ON OFF / ON / OFF
D-ON ON / OFF / ON

Normal one-point teaching

Pro-ce-dure	Operation
1	Set the mode selector to TEACH .
2	Set the NORMAL/ZONE mode selector to NORMAL .
3	Press the TEACH button with the background. The teaching indicator (red) will turn ON.
4	Set the mode selector to RUN . (Set to L-ON or D-ON mode.)

Note: Perform normal one-point teaching with the background.

Normal two-point teaching

Pro-ce-dure	Operation
1	Set the mode selector to TEACH .
2	Set the NORMAL/ZONE mode selector to NORMAL .
3	Press the TEACH button with a sensing object. The teaching indicator (red) will turn ON.

Pro-ce-dure	Operation
4	Move the sensing object and press the TEACH button with the background. If the teaching is successful, the teaching indicator (green) will turn ON. If the teaching is not successful, the teaching indicator (red) will flash.
5	When the teaching is successful, the setting is complete. Set the mode selector to RUN . (Use the operation mode selector to set L-ON/D-ON.) When the teaching is not successful, change the work position and setting distance again, and restart the setting from step "3".

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Zone teaching

Pro-ce-dure	Operation
1	Set the mode selector to TEACH .
2	Set the NORMAL/ZONE mode selector to ZONE .
3	Press the TEACH button with the background. The teaching indicator (red) will turn ON and the teaching indicator (green) will then turn ON.
4	Set the mode selector to RUN . (Set to L-ON or D-ON mode.)

Note: Perform zone teaching with the background.

Maximum distance setting (in normal mode)

If you want to set the maximum distance of the sensor, set a maximum distance as depicted in the following procedure.

Pro-ce-dure	Operation
1	Set the mode selector to TEACH .
2	Set the NORMAL/ZONE mode selector to NORMAL .

3	Press the TEACH button 3 s or more.
	   The teaching indicator (red) will turn ON.
	   In 3 s, the teaching indicator (green) will turn ON.

4	When the teaching indicator (green) turns ON, the setting is complete. Set the mode selector to RUN . (Set to L-ON/D-ON.)

Precautions

Correct Use

E3G-R/MR

Design
Power Supply
A full-wave rectification power supply can be used with the E3G-MR19(T)-G.
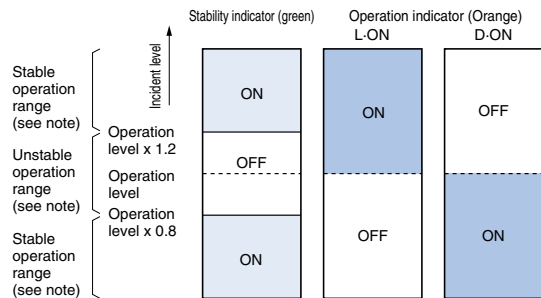
Wiring Considerations
The tensile strength of the cable during operation should not exceed the values shown below.

Model	Tensile strength
E3G-R13-G E3G-MR19(T)-G	50 N max.
E3G-R17-G	10 N max.

● **For adjustment**
Display
• The following graphs indicate the status of each operation level.
• Set the E3G so that it will work within the stable operation range.

Note: If the operation level is set to the stable operation range, the E3G will operate with the highest reliability and without being influenced by temperature change, voltage fluctuation, dust, or setting change.

E3G-L/ML

Design
Power Supply
A full-wave rectification power supply can be used with the E3G-ML79(T)-G.

Wiring Considerations
The tensile strength of the cable during operation should not exceed the values shown below.

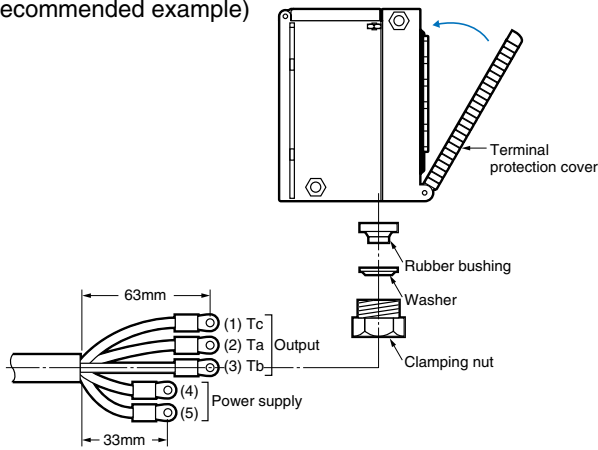| Model	Tensile strength
E3G-L73 E3G-ML79(T)-G	50 N max.
E3G-L77	10 N max.

Miscellaneous
EEPROM Write Error
If a write error occurs (operation indicator flickers) due to power-off, static electricity or other noise in the teaching mode, perform teaching again.
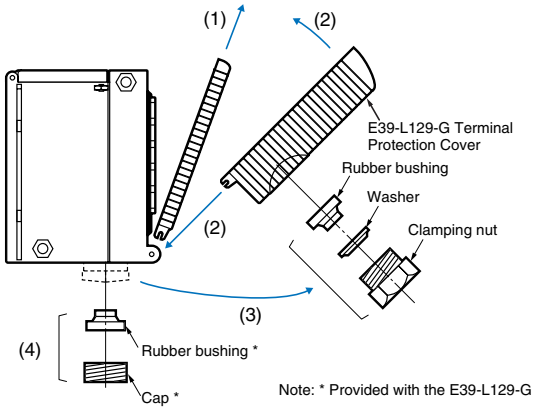
E3G-M□(T)-G

Wiring Considerations
• The cable with an external diameter of 6 to 8 mm is recommended.
• Securely tighten the cover to maintain water resistance and dust resistance. The thread size of the conduit socket is PG 13.5
• Do not tighten with the cable caught by the terminal protection cover. Otherwise, the water-resistant structure and like cannot be maintained.

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(Recommended example)

Terminal protection cover

Rubber bushing

Washer

63mm

(1) Tc
(2) Ta Output
(3) Tb

Clamping nut

(4)
(5) Power supply

33mm

• Changing to Side-pullout Cable from Vertical-pullout Cable

(1)   (2)

E39-L129-G Terminal Protection Cover

Rubber bushing

Washer

(2)

Clamping nut

(3)

(4) Rubber bushing *

Cap *

Note: * Provided with the E39-L129-G

Pro-ce-dure	Operation
①	Remove the present cover.
②	Attach the E39-L129-G Terminal Protection Cover for side-pullout cable.
③	Remove the clamping nut, washer, and rubber bushing of the E3G. These are used for the side-pullout cable.
④	Attach the rubber bushing and cap provided with the E39-L129-G to the E3G as replacements.

All E3G Models

Design

Load Relay Contact

If a load is used that will spark when it is turned OFF (e.g. a contactor or valve), the usually closed side may be turned ON before the usually open side is turned OFF or vice versa. If both usually open output and usually closed output are used simultaneously, apply an surge suppressor to the load. (Refer to OMRON's "Switch/Relay/Connector (PCB Product) Catalog" for typical examples of surge suppressors.

Wiring Considerations

Connection/Wiring

The E3G has load short-circuit protection. If load short-circuit or like has occurred, the output turns OFF. Therefore, recheck the wiring and switch power on again. This resets the short-circuit protection circuit. Load short-circuit protection is activated when a current of 2 times or more of the rated load current flows. When using an L load, use the one the inrush current of which is less than 1.2 times of the rated load current.

Mounting

• If Sensors are mounted face-to-face, ensure that no optical axes cross each other. Otherwise, mutual interference may result.
• Be sure to install the Sensor carefully so that the directional angle range of the Sensor will not be directly exposed to intensive light, such as sunlight, fluorescent light, or incandescent light.
• Do not strike the Photoelectric Sensor with a hammer or any other tool during the installation of the Sensor, or the Sensor will loose its water-resistive properties.
• Use M4 screws for Sensor installation.
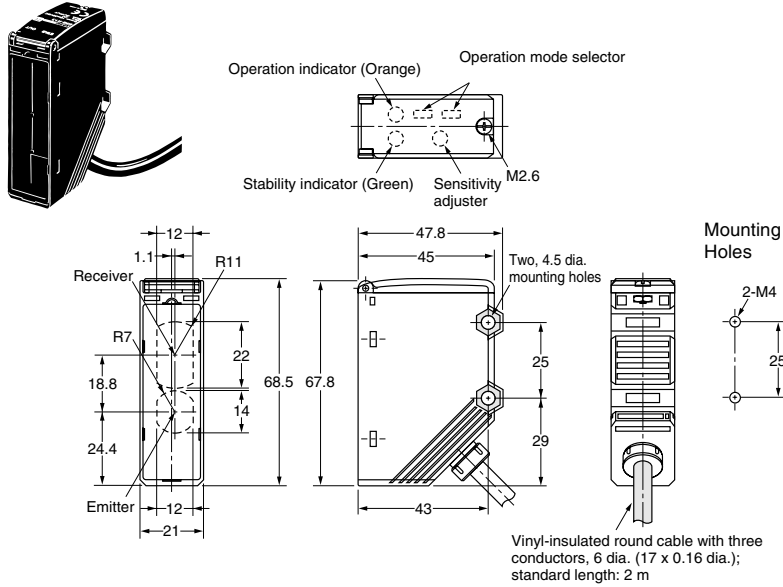• For case installation, tighten it to the torque of 1.2 Nm max.

Water Resistance

Tighten the operation cover screws and terminal block cover screws to a torque of 0.3 to 0.5 Nm in order to ensure water resistivity.
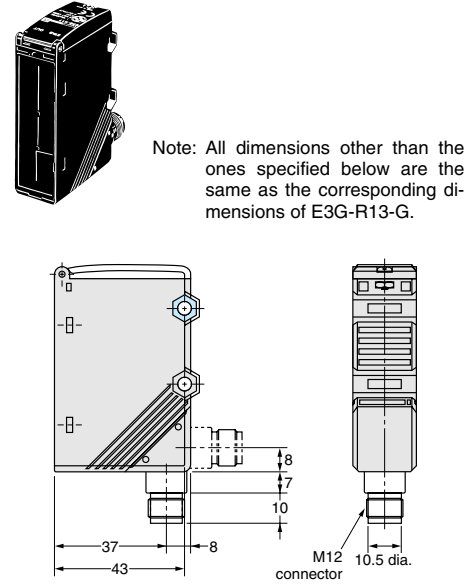
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Dimensions (Unit: mm)
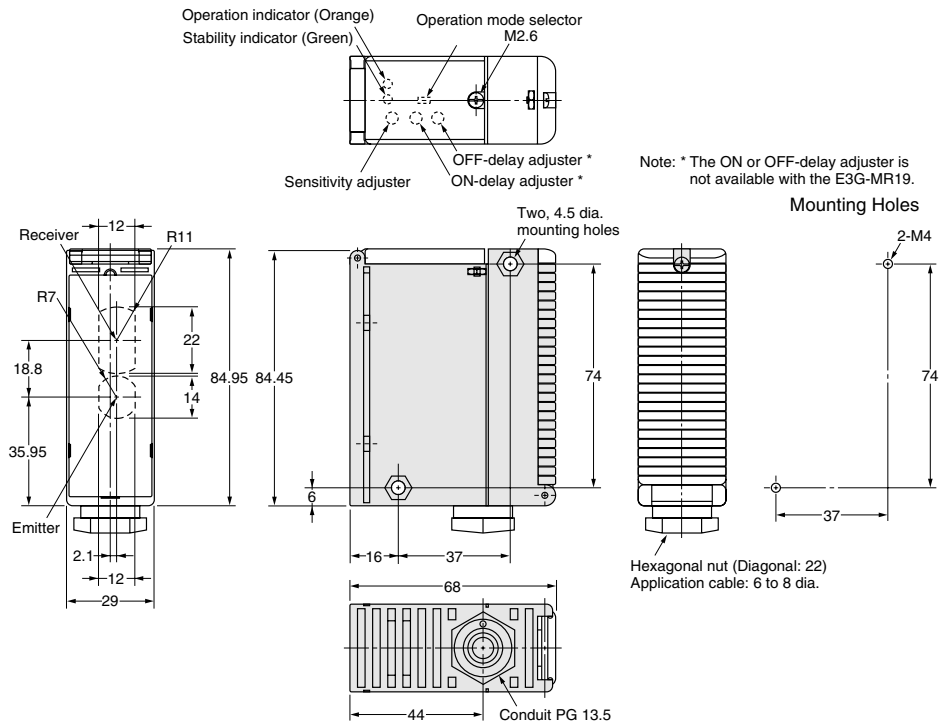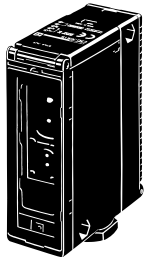
Sensors
Retroreflective Models

Pre-wired
E3G-R13-G

Operation indicator (Orange) Operation mode selector

Stability indicator (Green) Sensitivity adjuster M2.6

Receiver

Mounting Holes

Two, 4.5 dia. mounting holes

2-M4

Emitter

Vinyl-insulated round cable with three conductors, 6 dia. (17 x 0.16 dia.); standard length: 2 m

Connector type
E3G-R17-G

Note: All dimensions other than the ones specified below are the same as the corresponding dimensions of E3G-R13-G.

M12 connector 10.5 dia.

Terminal block
E3G-MR19-G
E3G-MR19T-G

Operation indicator (Orange)
Stability indicator (Green) Operation mode selector
M2.6

Sensitivity adjuster OFF-delay adjuster *
ON-delay adjuster *

Note: * The ON or OFF-delay adjuster is not available with the E3G-MR19.

Receiver

Two, 4.5 dia. mounting holes

Mounting Holes

2-M4

Emitter

Hexagonal nut (Diagonal: 22)
Application cable: 6 to 8 dia.

Conduit PG 13.5

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E3G

Distance-setting

Pre-wired
E3G-L73

Operation indicator (Orange) TEACH button

Indicators
Stability indicator (Green) Operation mode selector
Teaching indicator (Red and green) M2.6

Mounting Holes

Receiver
14 dia. lens
Emitter

14
18
30
12.8
13.7
21
68.5

47.8
45
Two, 4.5 dia. mounting holes
67.8
25
29
43

2-M4
25

Vinyl-insulated round cable with three conductors, 6 dia. (17 x 0.16 dia.); standard length: 2 m

Connector type
E3G-L77

Note: The figures and dimensions not given are the same as those of E3G-L73-G shown on the left.

8
7
10
37
43
8
M12 connector
10.5 dia.

Terminal block
E3G-ML79-G
E3G-ML79T-G

Indicators
Stability indicator (Green)
Teaching indicator (Red and green)

Operation indicator (Orange) Operation mode selector M2.6

TEACH button OFF-delay adjuster *
ON-delay adjuster *

E3G-ML79-G does not equipped ON-delay adjuster and OFF-delay adjuster.

Mounting Holes

Receiver
14 dia. lens
Emitter

14
18
30
24.4
13.7
29
84.95 84.45

M2.6 nut Two, 4.5 dia. mounting holes
74
6
16 37
68

2-M4
74
37

Hexagonal nut (Diagonal: 22)

44 Conduit PG 13.5

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Accessories (Order Separately)

Terminal Protection Cover for Side-pullout Cable
E39-L129-G

19
81.5
M2.6
29
22
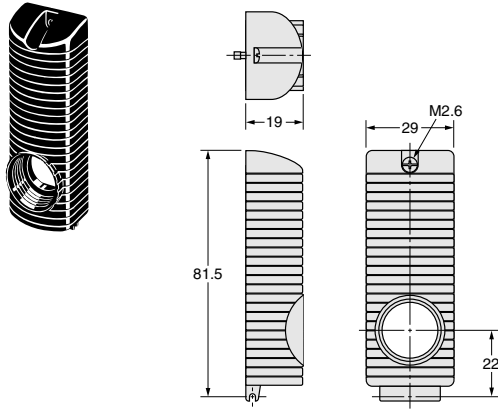
Note: 1. The cover is provided with a rubber bushing and cap to prevent the cable from being pulled out in vertical direction.
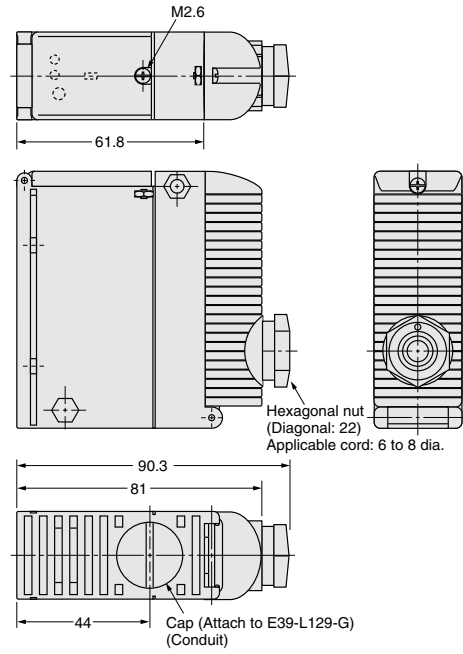
Reflectors and Mounting Brackets
H-3

Terminal Protection Cover for Side-pull-out Cable (Example of E3G-MR19-G)

M2.6
61.8

Hexagonal nut
(Diagonal: 22)
Applicable cord: 6 to 8 dia.

90.3
81
44
Cap (Attach to E39-L129-G)
(Conduit)

ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. E278-E2-04-X   In the interest of product improvement, specifications are subject to change without notice.

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