IO-Link Photoelectric Sensor

E3Z-□-IL□

CSM_E3Z-_-IL__DS_E_2_1

IO-Link Makes Sensor Level Information Visible and Solves the Three Major Issues at Manufacturing Sites! Standard Photoelectric Sensor.

- Downtime can be reduced.
  Notifies you of faulty parts and such phenomena in the Sensor in real time.
- The frequency of sudden failure can be decreased.
  The light incident level monitor prevents false detection before it happens.
- The efficiency of changeover can be improved.
  The batch check for individual sensor IDs significantly decreases commissioning time.
- Three types of sensing methods and three types of connection methods are available.

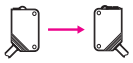
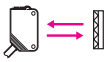
For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Be sure to read *Safety Precautions* on page 9.

Ordering Information

IO-Link Model / Sensors [Refer to *Dimensions* on page 10.]

Red light Infrared light

Sensing method	Appearance	Connection method	Sensing distance	IO-Link baud rate	Model (PNP)
Through-beam (Emitter + Receiver) *3		Pre-wired (2 m)	15 m	COM2 (38.4 kbps)	**E3Z-T81-IL2 2M** Emitter E3Z-T81-L-IL2 2M Receiver E3Z-T81-D-IL2 2M
		Pre-wired M12 connector			**E3Z-T81-M1TJ-IL2 0.3M** Emitter E3Z-T81-L-M1TJ-IL2 0.3M Receiver E3Z-T81-D-M1TJ-IL2 0.3M
		Standard M8 connector			**E3Z-T86-IL2** Emitter E3Z-T86-L-IL2 Receiver E3Z-T86-D-IL2
		Pre-wired (2 m)		COM3 (230.4 kbps)	**E3Z-T81-IL3 2M** Emitter E3Z-T81-L-IL3 2M Receiver E3Z-T81-D-IL3 2M
		Pre-wired M12 connector			**E3Z-T81-M1TJ-IL3 0.3M** Emitter E3Z-T81-L-M1TJ-IL3 0.3M Receiver E3Z-T81-D-M1TJ-IL3 0.3M
		Standard M8 connector			**E3Z-T86-IL3** Emitter E3Z-T86-L-IL3 Receiver E3Z-T86-D-IL3
Retro-reflective with MSR function	*1 	Pre-wired (2 m)	4 m (100 mm) *2 (When using E39-R1S)	COM2 (38.4 kbps)	**E3Z-R81-IL2 2M**
		Pre-wired M12 connector			**E3Z-R81-M1TJ-IL2 0.3M**
		Standard M8 connector			**E3Z-R86-IL2**
		Pre-wired (2 m)		COM3 (230.4 kbps)	**E3Z-R81-IL3 2M**
		Pre-wired M12 connector			**E3Z-R81-M1TJ-IL3 0.3M**
		Standard M8 connector			**E3Z-R86-IL3**

Note: Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).
*1. The Reflector is sold separately. Select the Reflector model most suited to the application.
*2. The sensing distance specified is possible when the E39-R1S is used. Values in parentheses indicate the minimum required distance between the Sensor and Reflector.
*3. Through-beam Sensors are normally sold in sets that include both the Emitter and Receiver.

Red light Infrared light

Sensing method	Appearance	Connection method	Sensing distance	IO-Link baud rate	Model
					PNP
Diffuse-reflective		Pre-wired (2 m)	1 m	COM2 (38.4 kbps)	E3Z-D82-IL2 2M
		Pre-wired M12 connector			E3Z-D82-M1TJ-IL2 0.3M
		Standard M8 connector			E3Z-D87-IL2
		Pre-wired (2 m)		COM3 (230.4 kbps)	E3Z-D82-IL3 2M
		Pre-wired M12 connector			E3Z-D82-M1TJ-IL3 0.3M
		Standard M8 connector			E3Z-D87-IL3
		Pre-wired (2 m)	90 mm (narrow beam)	COM2 (38.4 kbps)	E3Z-L81-IL2 2M
		Pre-wired M12 connector			E3Z-L81-M1TJ-IL2 0.3M
		Standard M8 connector			E3Z-L86-IL2
		Pre-wired (2 m)		COM3 (230.4 kbps)	E3Z-L81-IL3 2M
		Pre-wired M12 connector			E3Z-L81-M1TJ-IL3 0.3M
		Standard M8 connector			E3Z-L86-IL3

Note: Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).

Accessories (Sold Separately)

Slit (A Slit is not provided with Through-beam Sensors) Order a Slit separately if required.

Slit width	Sensing distance	Minimum detectable object (Reference value)	Model	Contents
	E3Z-T□□			
0.5-mm dia.	50 mm	0.2-mm dia.	E39-S65A	One set (contains Slits for both the Emitter and Receiver)
1-mm dia.	200 mm	0.4-mm dia.	E39-S65B	
2-mm dia.	800 mm	0.7-mm dia.	E39-S65C	
0.5 × 10 mm	1 m	0.2-mm dia.	E39-S65D	
1 × 10 mm	2.2 m	0.5-mm dia.	E39-S65E	
2 × 10 mm	5 m	0.8-mm dia.	E39-S65F	

Reflectors (Reflector required for Retroreflective Sensors) A Reflector is not provided with the Sensor. Be sure to order a Reflector separately.

Name	Sensing distance *		Model	Quantity	Remarks
	E3Z-R				
	Rated value	Reference value			
Reflector	3 m (100 mm)	---	E39-R1	1	• Reflectors are not provided with Retro-reflective models. • The MSR function of the E3Z-R□ is enabled.
	4 m (100 mm)	---	E39-R1S	1	
	---	5 m (100 mm)	E39-R2	1	
	---	2.5 m (100 mm)	E39-R9	1	
	---	3.5 m(100 mm)	E39-R10	1	
Fog Preventive Coating	---	3 m (100 mm)	E39-R1K	1	
Small Reflector	---	1.5 m (50 mm)	E39-R3	1	
Tape Reflector	---	700 mm (150 mm)	E39-RS1	1	
	---	1.1 m (150 mm)	E39-RS2	1	
	---	1.4 m (150 mm)	E39-RS3	1	

Note: **1.** If you use the Reflector at any distance other than the rated distance, make sure that the stability indicator lights properly when you install the Sensor.
2. Refer to *Reflectors on E39-L/E39-S/E39-R* on your OMRON website for details.
* Values in parenthese indicate the minimum required distance between the Sensor and Reflector.

Mounting Brackets **A Mounting Bracket is not enclosed with the Sensor. Order a Mounting Bracket separately if required.**

Appearance	Model (material)	Quantity	Remarks	Appearance	Model (material)	Quantity	Remarks
	**E39-L153 (SUS304)** *1	1	Mounting Brackets		**E39-L98 (SUS304)** *2	1	Metal Protective Cover Bracket
	**E39-L104 (SUS304)** *1	1			**E39-L150 (SUS304)**	1	(Sensor adjuster)
	**E39-L43 (SUS304)** *2	1	Horizontal Mounting Brackets		**E39-L151 (SUS304)**	1	Easily mounted to the aluminum frame rails of conveyors and easily adjusted. For left to right adjustment
	**E39-L142 (SUS304)** *2	1	Horizontal Protective Cover Bracket				
	**E39-L44 (SUS304)**	1	Rear Mounting Bracket		**E39-L144 (SUS304)** *2	1	Compact Protective Cover Bracket (For E3Z only)

Note:1. When using Through-beam models, order one bracket for the Receiver and one for the Emitter.
2. Refer to *Mounting Brackets on E39-L/E39-S/E39-R* on your OMRON website for details.
*1. Cannot be used for Standard Connector models with mounting surface on the bottom. In that case, use Pre-wired Connector models.
*2. Cannot be used for Standard Connector models.

Sensor I/O Connectors

(Models for Connectors and Pre-wired Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.)

Size	Type	Appearance	Cable length	Model
M12	Socket on one cable end	Smartclick connector Straight *2 	2 m	**XS5F-D421-D80-F**
			5 m	**XS5F-D421-G80-F**
		Smartclick connector L-shape *2 *3 	2 m	**XS5F-D422-D80-F**
			5 m	**XS5F-D422-G80-F**
	Socket and plug on cable ends *1	Smartclick connector Straight/ Straight *2 	2 m	**XS5W-D421-D81-F**
			5 m	**XS5W-D421-G81-F**
		Smartclick connector L-shape/L-shape *2 *3 	2 m	**XS5W-D422-D81-F**
			5 m	**XS5W-D422-G81-F**
M8	Socket on one cable end	Straight *3 	2 m	**XS3F-M421-402-A**
			5 m	**XS3F-M421-405-A**
		L-shape *3 *4 	2 m	**XS3F-M422-402-A**
			5 m	**XS3F-M422-405-A**
M8 socket/ M12 plug	Socket and plug on cable ends	M8-M12 (Smartclick) conversion cable *2 	0.2 m	**XS3W-M42C-4C2-A**

Note:1. When using Through-beam models, order one connector for the Receiver and one for the Emitter.
2. Refer to *Sensor I/O Connectors/Sensor Controllers* on your OMRON website for details.
*1. Straight type/L-shape type combinations are also available.
*2. The connectors will not rotate after they are connected.
*3. The cable is fixed at an angle of 180° from the sensor emitter/receiver surface.

Ratings and Specifications

IO-Link Model

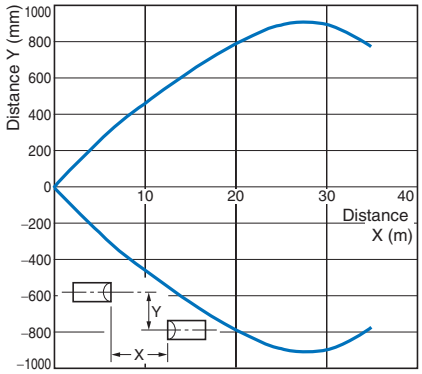
Item		Model	Sensing method	Through-beam	Retro-reflective with MSR function	Diffuse-reflective	Narrow-beam Models
	PNP output	Pre-wired		E3Z-T81-IL□	E3Z-R81-IL□	E3Z-D82-IL□	E3Z-L81-IL□
		Pre-wired connector (M12)		E3Z-T81-M1TJ-IL□	E3Z-R81-M1TJ-IL□	E3Z-D82-M1TJ-IL□	E3Z-L81-M1TJ-IL□
		Connector (M8)		E3Z-T86-IL□	E3Z-R86-IL□	E3Z-D87-IL□	E3Z-L86-IL□
Sensing distance				15 m	4 m (100 mm) * (when using E39-R1S) 3 m (100 mm) * (when using E39-R1)	1 m (white paper: 300 × 300 mm)	90 + 30 mm (white paper: 100 × 100 mm)
Spot diameter (reference value)				---			2.5 dia. and sensing distance of 90 mm
Standard sensing object				Opaque: 12-mm dia. min.	Opaque: 75-mm dia. min.	---	
Minimum detectable object (reference value)				---			0.1 mm (copper wire)
Differential travel (representative example)				---	---	20% max. of setting distance	Refer to *Engineering data* on page 6.
Directional angle				Both emitter and receiver: 3 to 15°	2 to 10°	---	
Light source (wavelength)				Infrared LED (870 nm)	Red LED (660 nm)	Infrared LED (870 nm)	Red LED (650 nm)
Power supply voltage				10 to 30 VDC (including 10% ripple (p-p))			
Current consumption				50 mA max. (Emitter: 25 mA max., Receiver: 25 mA max.)	30 mA max.		
Control output				Load power supply voltage: 30 VDC max., Load current: 100 mA max. Residual voltage: Load current of less than 10 mA: 1 V max. Load current of 10 to 100 mA: 2 V max. PNP open collector output Light-ON/Dark-ON selectable			
Indicators				In the Standard I/O mode (SIO mode): Operation indicator (orange, lit) and stability indicator (green, lit) In the IO-Link Mode: Operation indicator (orange, lit) and communication indicator (green, blinking at 1 s intervals)			
Protection circuits				Reversed power supply polarity protection, output short-circuit protection, and reversed output polarity protection	Reversed power supply polarity protection, output short-circuit protection, reversed output polarity protection, and mutual interference prevention		
Response time				Operate or reset: 1 ms max.			
Sensitivity adjustment				Sensitivity adjuster / IO-Link communications			
Ambient illumination (Receiver side)				Incandescent lamp: 3,000 lx max. Sunlight: 10,000 lx max.			
Ambient temperature range				Operating: −25 to 55°C (with no icing or condensation) Storage: −40 to 70°C (with no icing or condensation)			
Ambient humidity range				Operating: 35% to 85%, Storage: 35% to 95% (with no condensation)			
Insulation resistance				20 MΩ min. at 500 VDC			
Dielectric strength				1,000 VAC, 50/60 Hz for 1 min			
Vibration resistance				Destruction: 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions			
Shock resistance				Destruction: 500 m/s^2 3 times each in X, Y, and Z directions			
Degree of protection				IEC 60529 IP67			
Connection method				Pre-wired cable (standard cable length 2 m), M12 pre-wired connector (standard cable length 0.3 m), M8 connector			
Weight (packed state)	Pre-wired cable (2 m)			Approx. 120 g	Approx. 65 g		
	Pre-wired connector (M12)			Approx. 60 g	Approx. 30 g		
	Connector (M8)			Approx. 30 g	Approx. 20 g		
Material		Case		Polybutylene terephthalate (PBT)			
		Display		Modified polyarylate			
		Lens		Modified polyarylate	Methacrylate resin (PMMA)	Modified polyarylate	
Main IO-Link functions				Operation mode switching between Light ON and Dark ON, setup of the instability detection level for light receiving and non-light receiving, timer function of the control output and timer time selecting, instability output (IO-Link mode) ON delay timer time selecting, setup of a teaching level and execution of teaching, setup of light receiving sensitivity level, monitor output, operating hours read-out, and initial reset			
Communication specifications		IO-Link specification		Ver 1.1			
		Baud rate		-IL3: COM3 (230.4 kbps), -IL2: COM2 (38.4 kbps)			
		Data length		PD size: 2 bytes, OD size: 1 byte (M-sequence type: TYPE_2_2)			
		Minimum cycle time		-IL3 (COM3): 1 ms, -IL2 (COM2): 2.3 ms			
Accessories				Instruction manual (Neither Reflectors nor Mounting Brackets are provided with any of the above models.)			

* Values in parentheses indicate the minimum required distance between the Sensor and Reflector.

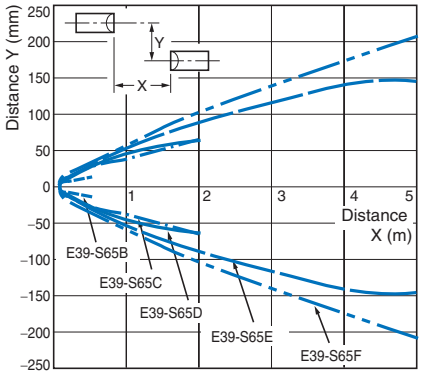
Engineering Data (Reference Value)

Parallel Operating Range

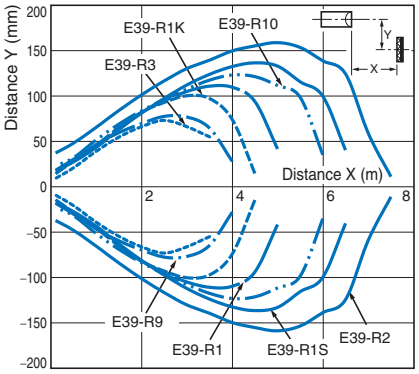
Through-beam Models E3Z-T8□-IL□



Through-beam Models E3Z-T8□-IL□ and Slit (A Slit is mounted to the Emitter and Receiver.)

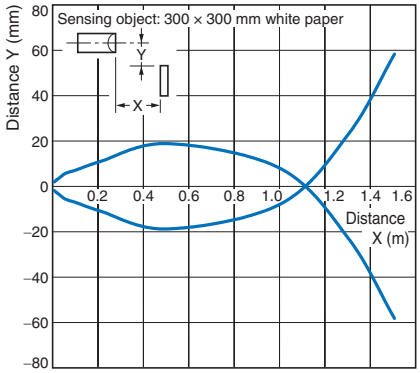


Retro-reflective Models E3Z-R8□-IL□ and Reflector

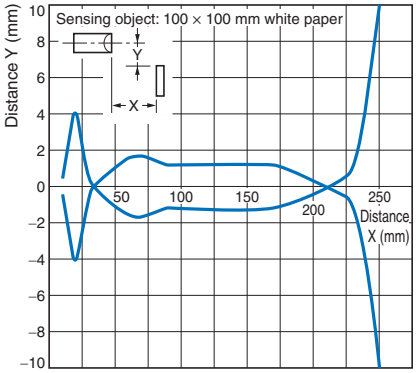


Operating Range

Diffuse-reflective Models E3Z-D8□-IL□

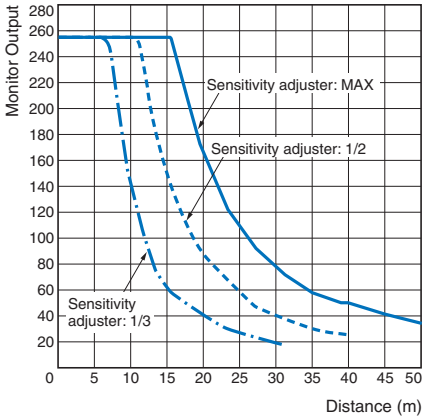


Narrow-beam Reflective Models E3Z-L8□-IL□

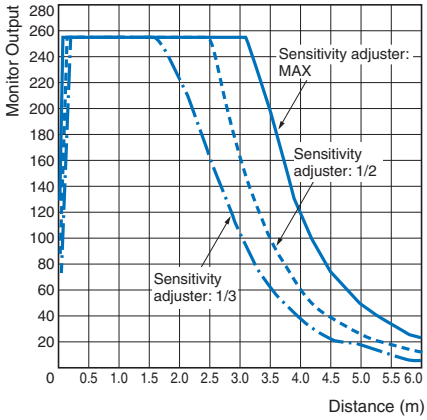


Monitor Output vs. Sensing Distance

Through-beam Models E3Z-T8□-IL□

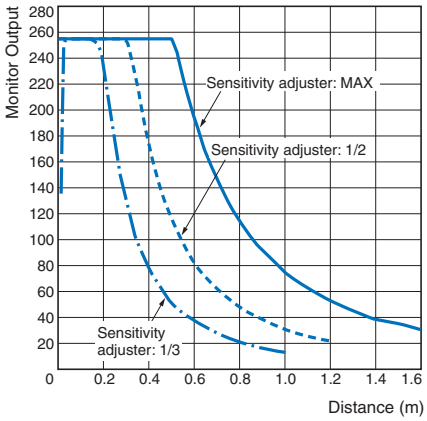


Retro-reflective Models E3Z-R8□-IL□ and E39-R1 Reflector

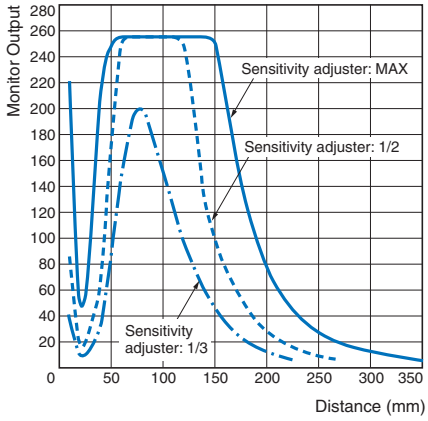


Monitor Output vs. Sensing Distance

Diffuse-reflective Models
E3Z-D8□-IL□

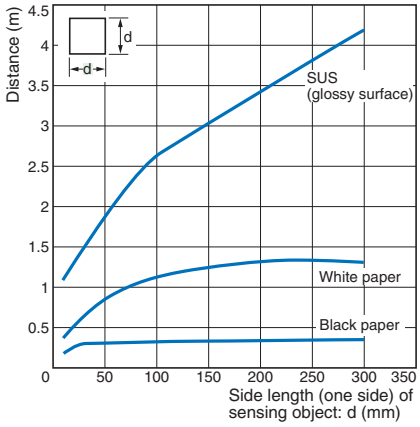


Narrow-beam Reflective Models
E3Z-L8□-IL□

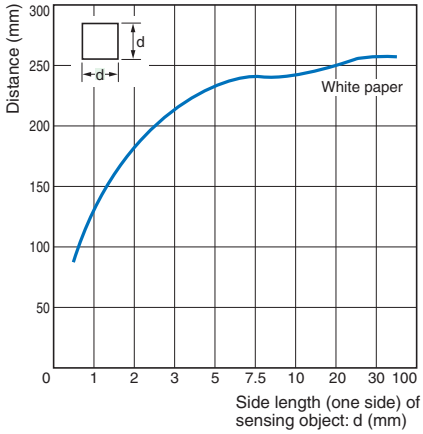


Sensing Object Size vs. Sensing Distance

Diffuse-reflective Models
E3Z-D8□-IL□

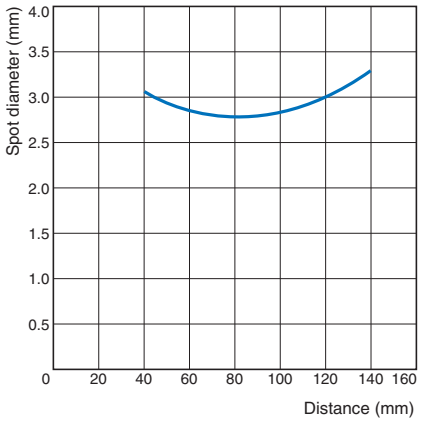


Narrow-beam Reflective Models
E3Z-L8□-IL□



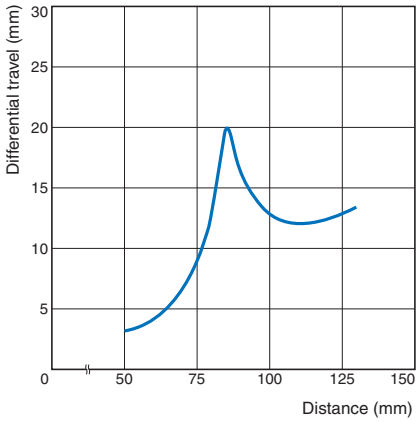
Spot Diameter vs. Sensing Distance

Narrow-beam Reflective Models
E3Z-L8□-IL□



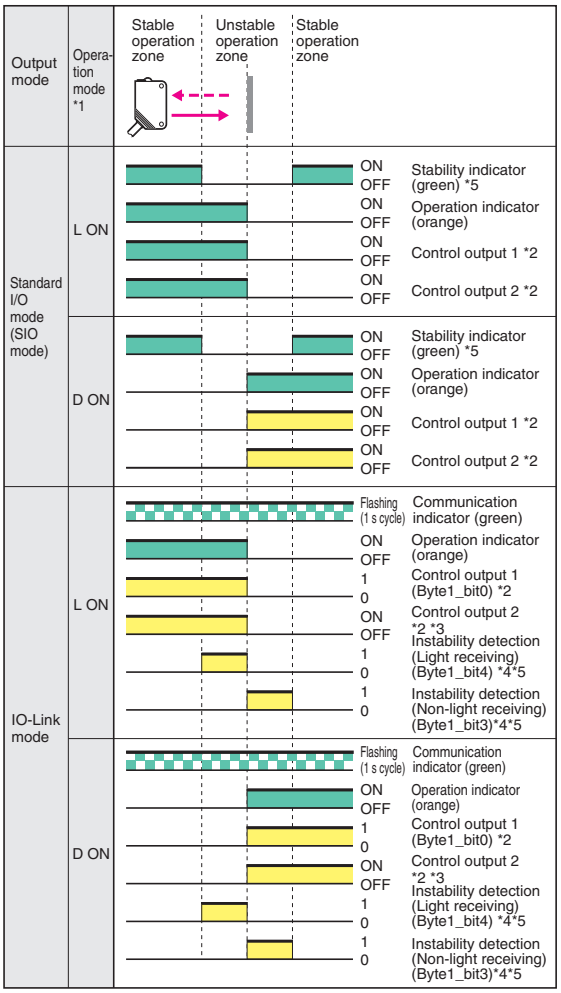
Differential Travel vs. Sensing Distance

Narrow-beam Reflective Models
E3Z-L8□-IL□



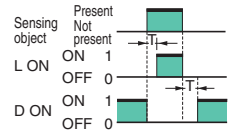
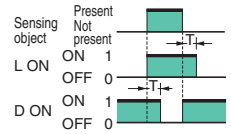
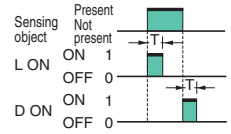
I/O Circuit Diagrams

Timing Chart



Note: Please contact your OMRON sales representative regarding assignment of data.

*1. The operation mode can be changed by the IO-Link communications.
*2. The timer function can be set up using the IO-Link communications for control output 1 and 2 separately. (It is able to select ON delay, OFF delay, or one-shot function and select a timer time of 1 to 4000 ms (T).)
*3. In the IO-Link mode, if the ON/OFF speed of the sensor is slow, high-speed response of 1 ms or less can be realized using control output 2 as a sensor.
*4. The judgment time for the instability detection diagnosis can be selected using the IO-Link communications. (For the ON delay timer function to detect instability, the setting can be selected from 0 (invalid), 10, 50, 100, 300, 500, or 1000 ms.
*5. The judgment condition for the light receiving/non-light receiving instability detection function can be selected using the IO-Link communications. (Setting of light receiving instability detection threshold: 500%/400%/300%/200%/140%, setting of non-light receiving instability detection threshold: 70%/50%)

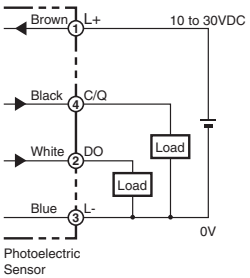
ON-delay	
OFF-delay	
One shot	

Output circuit

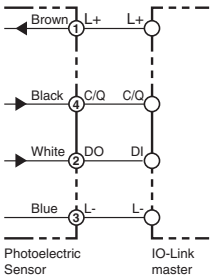
Reflective / Receiver of Through-beam Model

E3Z-□8□-IL□

When using as a general sensor



When using the Sensor connected to IO-Link Master Unit



Connector Pin Arrangement

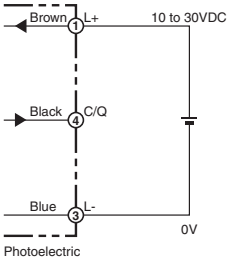
Pre-wired M12 connector
E3Z-□81-M1TJ-IL□
E3Z-□82-M1TJ-IL□
E3Z-T81-D-M1TJ-IL□

Standard M8 connector
E3Z-□86-IL□
E3Z-□87-IL□
E3Z-T86-D-IL□

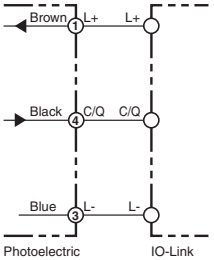
Emitter of Through-beam Model

E3Z-T8□-L-IL□

When using as a general sensor



When using the Sensor connected to IO-Link Master Unit



Connector Pin Arrangement

E3Z-T81-L-M1TJ-IL□

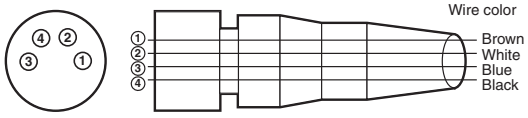
Note: Pins 2 is not used.

E3Z-T86-L-IL□

Note: Pins 2 is not used.

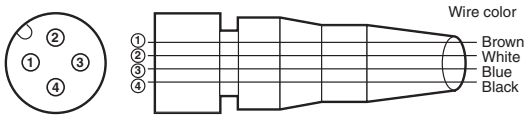
Plugs (Sensor I/O Connectors)

M8 connector



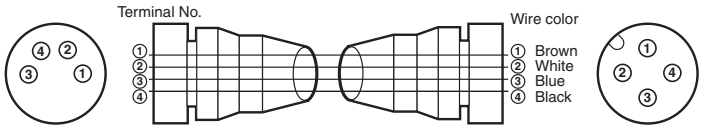
XS3F-M421-402-A
XS3F-M421-405-A
XS3F-M422-402-A
XS3F-M422-405-A

M12 connector



XS5F-D421-D80-F
XS5F-D421-G80-F
XS5F-D422-D80-F
XS5F-D422-G80-F

M8-M12 (Smartclick) conversion cable



XS3W-M42C-4C2-A

Through-beam Models (Emitter)

Pin arrangement

Classification	Wire color	Connector pin No.	Application
DC	Brown	1	Power supply (+V)
	White	2	–
	Blue	3	Power supply (0 V)
	Black	4	Output C/Q

Note: Pins 2 is not used.

Through-beam Models (Receiver)
Retro-reflective Models
Diffuse-reflective Models

Pin arrangement

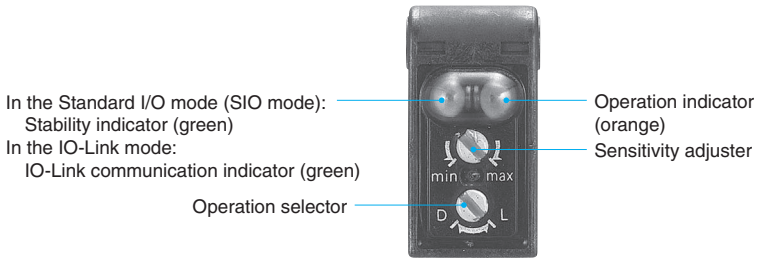
Classification	Wire color	Connector pin No.	Application
DC	Brown	1	Power supply (+V)
	White	2	Output DO
	Blue	3	Power supply (0 V)
	Black	4	Output C/Q

Nomenclature

Through-beam Models
E3Z-T8□-IL□ (Receiver)

Retro-reflective Models
E3Z-R8□-IL□

Diffuse-reflective Models
E3Z-D8□-IL□
E3Z-L8□-IL□



Safety Precautions

Be sure to read the precautions for all models in the website at: http://www.ia.omron.com/.

Warning Indications

⚠ WARNING	**Warning level** Indicates a potentially hazardous situation which, if not avoided, will result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.
Precautions for Safe Use	Supplementary comments on what to do or avoid doing, to use the product safely.
Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction or undesirable effect on product performance.

Meaning of Product Safety Symbols

	**General prohibition** Indicates the instructions of unspecified prohibited action.
	**Caution, explosion** Indicates the possibility of explosion under specific conditions.
	**Caution, fire** Indicates the possibility of fires under specific conditions.

⚠ WARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly.
Do not use it for such purposes.

The maximum power supply voltage is 30 VDC.
Before turning the power ON, make sure that the power supply voltage does not exceed the maximum voltage.

Never use the product with an AC power supply.
Otherwise, explosion may result.

Do not use the product with voltage in excess of the rated voltage.
Excess voltage may result in malfunction or fire.

Do not use the product above rated load.

Precautions for Safe Use

Be sure to follow the safety precautions below for added safety.

1. Do not use the sensor under the environment with explosive or ignition gas.
2. Never disassemble, repair nor tamper with the product.

Precautions for Correct Use

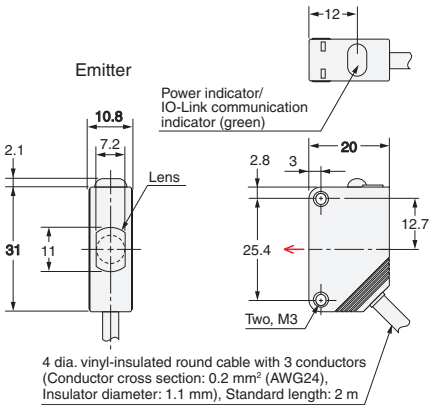
1. Do not use the product under the following conditions.
   (1) In the place exposed to the direct sunlight.
   (2) In the place where humidity is high and condensation may occur.
   (3) In the place where vibration or shock is directly transmitted to the product.
2. Connection and Mounting
   (1) If the sensor wiring is placed in the same conduits or ducts as high-voltage or high-power lines, inductive noise may cause malfunction or damage. Wire the cables separately or use a shielded cable.
   (2) Use an extension cable less than 100 m long for Standard I/O mode and less than 20 m for IO-Link mode.
   (3) Do not exceed the following force values applied to the cable. Tensile: 80 N max., torque: 0.1 Nm max., pressure: 20 N max., flexure: 3 kg max.
   M8 metal connectors
   (4) Fasten a fixed implement by hand. If you use pliers, it may cause malfunction or damage to it.
3. Cleaning
   Do not use thinner, alcohol, or other organic solvents. Otherwise, the optical properties and degree of protection may be degraded.
4. Power supply
   When using a commercially available switching regulator, be sure to ground the FG (Frame Ground) terminals.
5. Power supply reset time
   The photoelectric sensor will begin sensing no later than 100 ms after the power is turned on. If the load and the photoelectric sensor is connected to different power supply, the photoelectric sensor must be always turned on first.
6. Turning off the power supply
   When turning off the power, output pulse may be generated. We recommend turning off the power supply of the load or load line first.
7. Water resistance
   Though this is type IP67, do not use in the water, rain or outdoors.
8. Please process it as industrial waste.

Dimensions

(Unit: mm)
Tolerance class IT16 applies to dimensions in this data sheet unless otherwise specified.

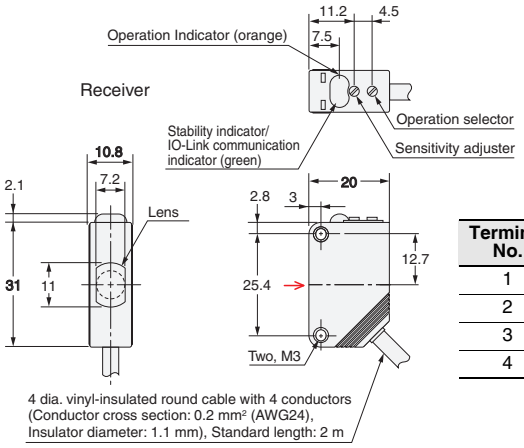
Sensors

Through-beam Models *
Pre-wired Models
E3Z-T81-IL□



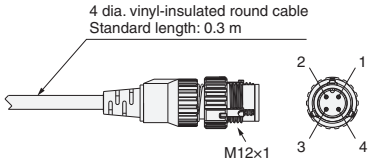
Terminal No.	Specifications
1	+V
2	---
3	0V
4	Output C/Q

Pins 2 is not used.

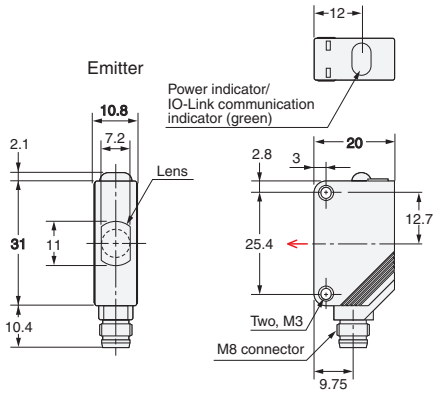


Terminal No.	Specifications
1	+V
2	Output DO
3	0V
4	Output C/Q

Pre-wired M12 connector
(E3Z-T□□-M1TJ)

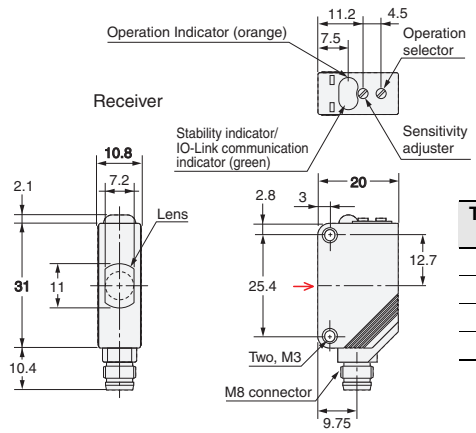


Through-beam Models *
Connector Models
E3Z-T86-IL□



Terminal No.	Specifications
1	+V
2	---
3	0V
4	Output C/Q

Pins 2 is not used.



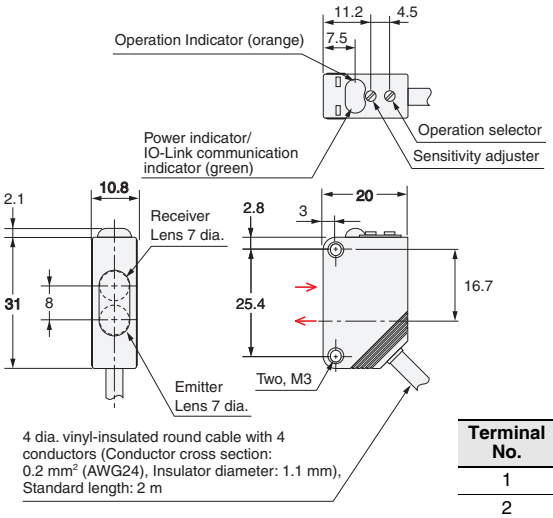
Terminal No.	Specifications
1	+V
2	Output DO
3	0V
4	Output C/Q

* Models numbers for Through-beam Sensors (E3Z-T□□) are for sets that include both the Emitter and Receiver.
The model number of the Emitter is expressed by adding "-L" to the set model number (example: E3Z-T81-IL□-L 2M), the model number of the Receiver, by adding "-D" (example: E3Z-T81-IL□-D 2M.) Refer to *Ordering Information* to confirm model numbers for Emitter and Receivers.

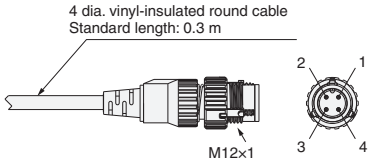
Retro-reflective Models

Pre-wired Models

E3Z-R81-IL□
E3Z-D82-IL□
E3Z-L81-IL□



Pre-wired M12 connector (E3Z-□8□-M1TJ)

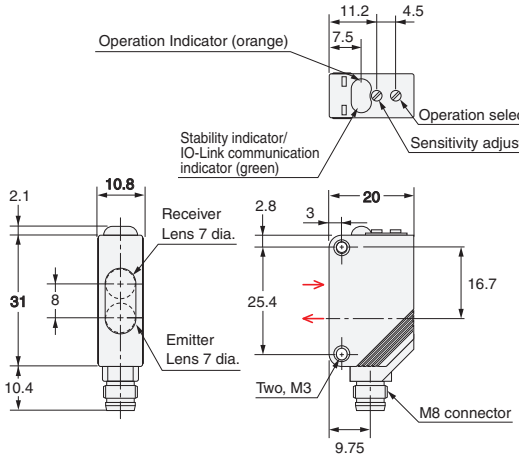


Terminal No.	Specifications
1	+V
2	Output DO
3	0V
4	Output C/Q

Retro-reflective Models

Connector Models

E3Z-R86-IL□
E3Z-D87-IL□
E3Z-L86-IL□



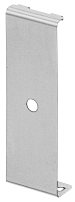
Terminal No.	Specifications
1	+V
2	Output DO
3	0V
4	Output C/Q

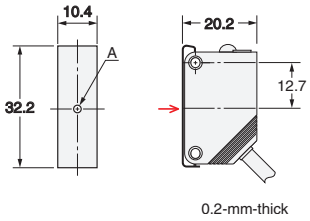
Note: The lens for the E3Z-D□2/D□7 is black.

Accessories (Order Separately)

Slits

E39-S65A
E39-S65B
E39-S65C

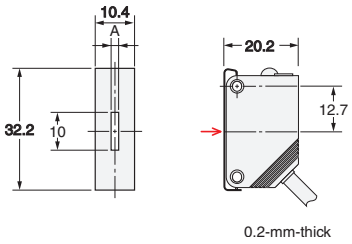




Model	Size A	Material
E39-S65A	0.5 dia.	SUS301 stainless steel
E39-S65B	1.0 dia.	
E39-S65C	2.0 dia.	

Slits

E39-S65D
E39-S65E
E39-S65F

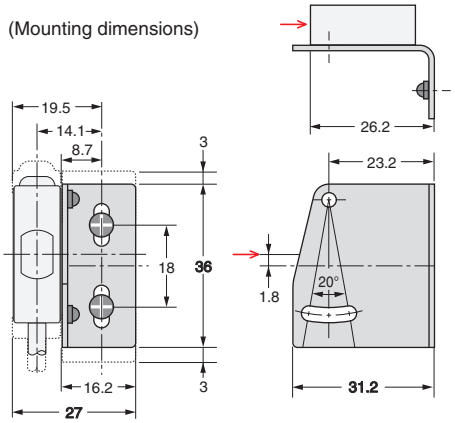


Model	Size A	Material
E39-S65D	0.5	SUS301 stainless steel
E39-S65E	1.0	
E39-S65F	2.0	

Mounting Bracket

E39-L44

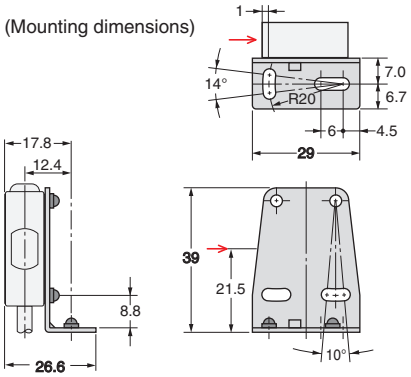
(Mounting dimensions)



Mounting Bracket

E39-L104

(Mounting dimensions)



Reflectors

Refer to *E39-R* on your OMRON website for details.

Sensor I/O Connectors

Refer to *XS3 or XS5* on your OMRON website for details.

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