Built-in Power Supply Photoelectric SensorE3JK <NEW>

Long-distance Photoelectric Sensor That Supports AC/DC Power Supplies

- Long sensing distance that is approximately 8 times that of our conventional model (for the Through-beam and Diffuse-reflective models). (Through-beam: 40 m, Retro-reflective: 7 m, and Diffuse-reflective: 2.5 m.)
- Improved visibility:
 - A red LED that makes the spot visible.
 - Large indicators that can be seen even from a distance.
- Improved operability.
 (Enlarged sensitivity adjuster and operation selector)
- Freely selectable power supply input (24 to 240 VDC, 24 to 240 VAC).

(Additional types added to the DC type lineup.)



Refer to the Safety Precautions on page 12.



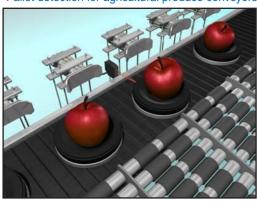
For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Applications

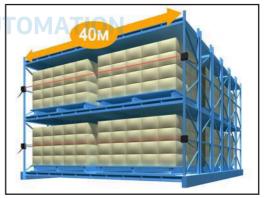
Elevator cage detection



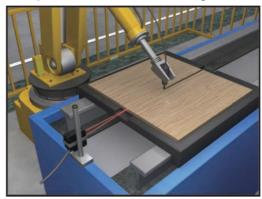
Pallet detection for agricultural produce conveyors



Detection of packages jutting out from their storage location



Workpiece detection for woodworking machines



Ordering Information

Sensors

Red light

Sensors without Brackets or Reflectors

Power supply voltage	Sensing method	Appearance	Sensing distance	Output configuration	Model
	Through-beam *1 (Emitter + Receiver)		40 m	-	E3JK-TR11 2M
	(Efficient + Neceiver)		5 m	=	E3JK-TR12 2M
AC/DC power	Retro-reflective without MSR function		*3 7 m [100 mm] (When using E39-R1) 11 m [100 mm] (When using E39-R2)		E3JK-RR11 2M
supply selectable type	Retro-reflective with MSR function	*3	*3 6 m [100 mm] (When using E39-R1) 10 m [100 mm] (When using E39-R2)		E3JK-RR12 2M
		P	2.5 m		E3JK-DR11 2M
	Diffuse-reflective		300 mm		E3JK-DR12 2M
	Through-beam *1 (Emitter + Receiver)			NPN	E3JK-TN11 2M
			40 m	PNP	E3JK-TP11 2M
				NPN	E3JK-TN12 2M
			5 m	PNP	E3JK-TP12 2M
	Retro-reflective without MSR function	INDUSTRIA	7 m [100 mm] (When using E39-R1)	NPN	E3JK-RN11 2M
DC	WILLIOUT INISH TUTICUOTI		11 m [100 mm] (When using E39-R2)	PNP	E3JK-RP11 2M
	Retro-reflective	*2	*3 6 m [100 mm] (When using E39-R1)	NPN	E3JK-RN12 2M
	with MSR function		10 m [100 mm] (When using E39-R2)	PNP	E3JK-RP12 2M
			2.5 m	NPN	E3JK-DN11 2M
	Diffuse-reflective	at include both the Emitter and Roo		PNP	E3JK-DP11 2M
			300 mm	NPN	E3JK-DN12 2M
				PNP	E3JK-DP12 2M

^{*1.} Through-beam Sensors are sold in sets that include both the Emitter and Receiver.
*2. A Reflector is not included. Purchase a Reflector separately to match the intended use of the Sensor.
*3. Values in parentheses indicate the minimum required distances between the Sensors and Reflectors.

Sensors

Sensors with Brackets and Reflectors (The model numbers contain ("-C.")

Red light

Power supply voltage	Sensing method	Appearance	Sensing distance	Output configu- ration	Model
	Through-beam *1 (Emitter + Receiv-		40m		E3JK-TR11-C 2M
AC/DC power supply select- able	er)		5m		E3JK-TR12-C 2M
	Retro-reflective without MSR func- tion		7m *2 [100mm] (When using E39-R1) 11m [100mm] (When using E39-R2)		E3JK-RR11-C 2M
	Retro-reflective with MSR function		(When using E39-R1) 10m [100mm] (When using E39-R2)	Relay	E3JK-RR12-C 2M
	Diffuse-reflective		2.5m		E3JK-DR11-C 2M
			300mm	Ā	E3JK-DR12-C 2M

Through-beam Sensors are sold in sets that include both the Emitter and Receiver.

Accessories (Order Separately)

Reflectors (A Reflector is required for Retro-reflective Sensors.) [Refer to Dimensions on page 14.] The E39-R1 is enclosed with Sensors with model numbers that contain "-C."

Name	Sensing distance (rated value)		Model	Quantity
	E3JK-R□11	7 m [100 mm] *	E39-R1	ON
	E3JK -R □ 12	6 m [100 mm] *	L39-K1	! !
Reflectors	E3JK -R □11	9 m [100 mm] *	E39-R1S	1
Hellectors	E3JK -R □ 12	7 m [100 mm] *	L39-K13	
	E3JK -R □11	11 m [100 mm] *	E39-R2	1
	E3JK -R □12	10 m [100 mm] *	E33-NZ	Į.

Mounting Bracket [Refer to Dimensions on page 14.]

A Mounting Bracket is enclosed with Sensors with model numbers that contain "-C."

Appearance	Model	Quantity
	E39-L40	1

Note: 1. When using a Through-beam Sensor, order one Mounting Bracket for the Receiver and one for the Emitter.

Values in parentheses indicate the minimum required distances between the Sensors and Reflectors.

Note: Refer to Engineering Data on page 9 for details.
*Values in parentheses indicate the minimum required distances between the Sensors and Reflectors.

^{2.} For details, refer to Mounting Brackets on E39-L/E39-S/E39-R which can be accessed from your OMRON website.

Ratings and Specifications

	Sensing method		Through-beam			
Item Model		E3JK-TR11-□	E3JK-TN11	E3JK-TP11		
Sensing distar	nce	40 m	40 m			
Standard sens		Opaque: 17-mm dia. min.				
Differential travel			_			
Directional an	gle	Both Emitter and Receiver 3° mir	٦.			
Light source (wavelength)	Red LED (624 nm)				
Power supply	voltage	24 to 240 VDC ±10%, ripple (p-p): 10% max. 24 to 240 VAC ±10%, 50/60 Hz	10 to 30 VDC, including ripple (p-	-p): 10%		
Power	DC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	40 mA max. (Emitter 25 mA max	. Receiver 15 mA max.)		
consumption	AC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)		_		
Control output		Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1), 5 VDC, 10 mA min., Light-ON/Dark-ON selectable	Load power supply voltage: 30 V Residual voltage: 3 V max., oper output depending on model), Ligi			
Protection circuits		Power supply reverse polarity proprotection	otection, Output short-circuit protection	ction, and Output reverse polarity		
Life	Mechanical	50,000,000 times min. (switching frequency: 18,000 times/h)		-		
expectancy (relay output)	Electrical	100,000 times min. (switching frequency: 1,800 times/h)	<i>IIUIIU</i>	_		
Response time)	20 ms max.	1 ms max.			
Sensitivity adj	ustment	One-turn adjuster Receiver (E3	3JK-T□□□-D) only			
Ambient illumi (Receiver side		Incandescent lamp: 3,000 lx max., Sunlight: 11,000 lx max.				
Ambient temp	erature range	Operating: -25°C to 55°C, Storage	ge: –40°C to 70°C (with no icing or	r condensation)		
Ambient humi	dity range	Operating: 35% to 85%, Storage	: 35% to 95% (with no condensation	on)		
Insulation resi	stance	20 MΩ min. at 500 VDC	AUTOMATION			
Dielectric stre	ngth	1,500 VAC, 50/60 Hz for 1 min				
Vibration	Destruction	10 to 55 Hz with a 1.5 mm double	e amplitude for 2 hours each in X ,	Y, and Z directions		
resistance	Malfunction	10 to 55 Hz with a 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions				
Shock	Destruction	500 m/s ² for 3 times each in X, Y	, and Z directions			
resistance	Malfunction	100 m/s² for 3 times each in X, Y, and Z directions	500 m/s² for 3 times each in X, Y	, and Z directions		
Degree of protection		IEC 60529 IP64				
Connection m	ethod	Pre-wired (standard length: 2 m)				
Weight (packed state)		Approx. 350 g	Approx. 300 g			
	Case	ABS (Acrylonitril Butadiene Styre	ene)			
Material	Lens/Display window	Methacrylic resin				
	Adjuster	POM				
	Cable	PVC				
Bending radiu	s of cable	R18				
Accessories		Instruction manual and Mounting	Bracket (E3JK-TR11-C only)			
		· · · · · · · · · · · · · · · · · · ·				

	Sensing method		Through-beam			
Item	Model	E3JK-TR12-□	E3JK-TN12	E3JK-TP12		
Sensing distar	nce	5 m				
Standard sensing object		Opaque: 17-mm dia. min.				
Differential travel			-			
Directional angle		Both Emitter and Receiver 3° min	٦.			
Light source (wavelength)		Red LED (624 nm)				
Power supply	voltage	24 to 240 VDC ±10%, ripple (p-p): 10% max. 24 to 240 VAC ±10%, 50/60 Hz	10 to 30 VDC, including ripple	(p-p): 10%		
Power	DC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)	40 mA max. (Emitter 25 mA ma	ax. Receiver 15 mA max.)		
consumption	AC	3 W max. (Emitter 1.5 W max. Receiver 1.5 W max.)		-		
Control output		Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1), 5 VDC, 10 mA min., Light-ON/Dark-ON selectable	Load power supply voltage: 30 Nesidual voltage: 3 V max., opoutput depending on model), L			
Protection circuits		Power supply reverse polarity proprotection	otection, Output short-circuit prof	tection, and Output reverse polarity		
Life expectancy	Mechanical	50,000,000 times min. (switching frequency: 18,000 times/h)		-		
(relay output)	Electrical	100,000 times min. (switching frequency: 1,800 times/h)	<i>UIIU</i>	-		
Response time	e	20 ms max.	1 ms max.			
Sensitivity adj	ustment	One-turn adjuster Receiver (E3	JK-T□□□-D) only			
Ambient illum (Receiver side		Incandescent lamp: 3,000 lx max	,000 lx max., Sunlight: 11,000 lx max.			
Ambient temp	erature range	Operating: -25°C to 55°C, Storage	ge: -40°C to 70°C (with no icing	or condensation)		
Ambient humi	dity range	Operating: 35% to 85%, Storage	: 35% to 95% (with no condensa	ition)		
Insulation resi	stance	20 MΩ min. at 500 VDC	UTOMATION			
Dielectric stre	_	1,500 VAC, 50/60 Hz for 1 min				
Vibration	Destruction	10 to 55 Hz with a 1.5 mm double	e amplitude for 2 hours each in)	X, Y, and Z directions		
resistance	Malfunction	10 to 55 Hz with a 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions				
Shock	Destruction	500 m/s ² for 3 times each in X, Y	, and Z directions			
resistance	Malfunction	100 m/s² for 3 times each in X, Y, and Z directions 500 m/s² for 3 times each in X, Y, and Z directions				
Degree of prot	ection	IEC 60529 IP64				
Connection method		Pre-wired (standard length: 2 m)				
Weight (packe	d state)	Approx. 350 g Approx. 300 g				
	Case	ABS (Acrylonitril Butadiene Styre	ene)			
Material	Lens/Display window	Methacrylic resin				
	Adjuster	POM				
	Cable	PVC				
Bending radiu	s of cable	R18				
Accessories		Instruction manual and Mounting	Bracket (E3JK-TR12-C only)			

Consumption Control output Protection circu Life expectancy (relay output) Response time Sensitivity adjus Ambient illumin	ng object el le ravelength)	Opaque: 75-mm dia. min.	E3JK-RN11 -R1), 11 m [100 mm]* (When us	E3JK-RP11 sing E39-R2)			
Standard sensing Differential trave Differential trave Directional anglation Light source (with Power supply versionsumption) Control output Protection circuit Life expectancy (relay output) Response time Sensitivity adjust Ambient illumin	ng object el le ravelength)	Opaque: 75-mm dia. min.	-R1), 11 m [100 mm]* (When us	sing E39-R2)			
Differential trave Directional angl Light source (wat Power supply ver Power consumption Control output Protection circul Life expectancy (relay output) Response time Sensitivity adjust Ambient illumin	el le ravelength)			7 m [100 mm]* (When using E39-R1), 11 m [100 mm]* (When using E39-R2)			
Directional angl Light source (water Power supply ver Power consumption Control output Protection circul Life expectancy (relay output) Response time Sensitivity adjust Ambient illumin	le ravelength)	4.50 min		Opaque: 75-mm dia. min.			
Power supply versions and protection circular control output Protection circular ci	avelength)	4.50	-				
Power supply von Power consumption Control output Protection circular Life expectancy (relay output) Response time Sensitivity adjust		1.5° min.					
Power consumption Control output Protection circu Life expectancy (relay output) Response time Sensitivity adjust		Red LED (624 nm)					
Consumption Control output Protection circu Life expectancy (relay output) Response time Sensitivity adjus Ambient illumin	oltage	24 to 240 VDC ±10%, ripple (p-p): 10% max. 24 to 240 VAC ±10%, 50/60 Hz	10 to 30 VDC, including ripple	(p-p): 10%			
Control output Protection circu Life expectancy (relay output) Response time Sensitivity adjust	DC	2 W max.	30 mA max.				
Protection circu Life expectancy (relay output) Response time Sensitivity adjus	AC	2 W max.		_			
Life expectancy (relay output) Response time Sensitivity adju		Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1), 5 VDC, 10 mA min., Light-ON/Dark-ON selectable		V max., Load current: 100 mA max., pen-collector output (NPN/PNP Light-ON/Dark-ON selectable			
Life expectancy (relay output) Response time Sensitivity adjust	uits	Power supply reverse polarity proprevention function, and Output r		otection, Mutual interference			
(relay output) Response time Sensitivity adjust Ambient illumin	Mechanical	50,000,000 times min. (switching frequency: 18,000 times/h)		_			
Sensitivity adjus	Electrical	100,000 times min. (switching frequency: 1,800 times/h)	Ilona	-			
Ambient illumin		20 ms max.	1 ms max.				
	stment	One-turn adjuster					
(Receiver side)	ation	Incandescent lamp: 3,000 lx max., Sunlight: 11,000 lx max.					
Ambient temper	rature range	Operating: -25°C to 55°C, Storage	ge: -40°C to 70°C (with no icing	g or condensation)			
Ambient humidi	ity range	Operating: 35% to 85%, Storage:	: 35% to 95% (with no condens	ation)			
Insulation resist	tance	20 MΩ min. at 500 VDC					
Dielectric strenç	gth	1,500 VAC, 50/60 Hz for 1 min					
Vibration	Destruction	10 to 55 Hz with a 1.5 mm double	e amplitude for 2 hours each in	X, Y, and Z directions			
resistance	Malfunction	10 to 55 Hz with a 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions					
Shock	Destruction	500 m/s ² for 3 times each in X, Y	, and Z directions				
	Malfunction	100 m/s² for 3 times each in X, Y, and Z directions	500 m/s² for 3 times each in X	, Y, and Z directions			
Degree of prote	ection	IEC 60529 IP64	1				
Connection met	thod	Pre-wired (standard length: 2 m)					
Weight (packed	state)	Approx. 180 g Approx. 160 g					
(Case	ABS (Acrylonitril Butadiene Styre	ene)				
	Lens/Display window	Methacrylic resin					
	Adjuster	POM					
(PVC					
Bending radius	Cable	l	R18				
Accessories	Cable						

^{*}Values in parentheses indicate the minimum required distances between the Sensors and Reflectors.

	Sensing method	R	Retro-reflective (with MSR function)			
Item Model		E3JK-RR12-□	E3JK-RN12	E3JK-RP12		
Sensing distar	nce	6 m [100 mm]* (When using E39	-R1), 10 m [100 mm]* (When usi	ng E39-R2)		
Standard sens	sing object	Opaque: 75-mm dia. min.				
Differential tra	vel		-			
Directional an	gle	1.5° min.				
Light source (wavelength)	Red LED (624 nm)				
Power supply	voltage	24 to 240 VDC ±10%, ripple (p-p): 10% max. 24 to 240 VAC ±10%, 50/60 Hz	10 to 30 VDC, including ripple (p-p): 10%		
Power DC		2 W max.	30 mA max.			
consumption	AC	2 W max.		_		
Control output	t	Relay output SPDT, 250 VAC, 3 A max. (cosφ= 1), 5 VDC, 10 mA min., Light-ON/Dark-ON selectable	Load power supply voltage: 30 \ Residual voltage: 3 V max., ope output depending on model), Li			
Protection circuits		Power supply reverse polarity proprevention function, and Output r		ection, Mutual interference		
Life expectancy	Mechanical	50,000,000 times min. (switching frequency: 18,000 times/h)		-		
(relay output)	Electrical	100,000 times min. (switching frequency: 1,800 times/h)	lond	_		
Response time	e	20 ms max.	1 ms max.			
Sensitivity adj	ustment	One-turn adjuster				
Ambient illumi		Incandescent lamp: 3,000 lx max., Sunlight: 11,000 lx max.				
Ambient temp	erature range	Operating: -25°C to 55°C, Storage	ge: -40°C to 70°C (with no icing	or condensation)		
Ambient humi	dity range	Operating: 35% to 85%, Storage	: 35% to 95% (with no condensat	tion)		
Insulation resi	stance	20 MΩ min. at 500 VDC	,	·		
Dielectric stre	ngth	1,500 VAC, 50/60 Hz for 1 min				
Vibration	Destruction	10 to 55 Hz with a 1.5 mm double	e amplitude for 2 hours each in X	(, Y, and Z directions		
resistance	Malfunction	10 to 55 Hz with a 1.5 mm double	•			
	Destruction	500 m/s ² for 3 times each in X, Y	•	<u> </u>		
Shock resistance	Malfunction	100 m/s ² for 3 times each in X, Y, and Z directions	500 m/s² for 3 times each in X,	Y, and Z directions		
Degree of prot	ection	IEC 60529 IP64	1			
Connection m		Pre-wired (standard length: 2 m)				
Weight (packe	d state)	Approx. 180 g	Approx. 160 g			
	Case	ABS (Acrylonitril Butadiene Styre				
Material	Lens/Display window	Methacrylic resin				
	Adjuster	POM				
	Cable	PVC				
Bending radiu		R18				
Accessories		Instruction manual, Mounting Bra	icket (E3JK-RR12-C only), and F	Reflector (E3JK-RR12-C only)		
		num required distances between the Sen				

^{*}Values in parentheses indicate the minimum required distances between the Sensors and Reflectors.

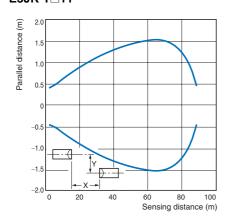
	Sensing method		Diffuse-reflective			
Item	Model	E3JK-DR11-	E3JK-DR12-□	E3JK-DN11	E3JK-DP11	E3JK-DN12 E3JK-DP12
Sensing distance		White paper (300 × 300 mm): 2.5 m	White paper (100 × 100 mm): 300 mm	White paper (300 × 300 mm): 2.5 m		White paper (100 × 100 mm): 300 mm
Standard sens		000/			_	
Differential tra		20% max. of ser	nsing distance			
Directional an		Dod I ED (604 m			_	
Light source (wavelength)		Red LED (624 n				
Power supply voltage		24 to 240 VDC ± ripple (p-p): 10% 24 to 240 VAC ±	max.	10 to 30 VDC, i	ncluding ripple (p	p-p): 10%
Power	DC	2 W max.		30 mA max.		
consumption	AC	2 W max.				_
Control output		Relay output SP 3 A max. (cosφ= 10 mA min., Light selectable	= 1), 5 VDC,	Load power supply voltage: 30 V max., Load current: 100 mA m. Residual voltage: 3 V max., open-collector output (NPN/PNP output depending on model), Light-ON/Dark-ON selectable		n-collector output (NPN/PNP
Protection circuits				otection, Output s reverse polarity p		ction, Mutual interference
Life expectancy	Mechanical	50,000,000 time (switching freque times/h)				_
(relay output)	Electrical	100,000 times m (switching freque times/h)				_
Response time	e	20 ms max.		1 ms max.		
Sensitivity adj	ustment	One-turn adjuster				
Ambient illum (Receiver side		Incandescent lamp: 3,000 lx max., Sunlight: 11,000 lx max.				
Ambient temp	erature range	Operating: –25°C to 55°C, Storage: –40°C to 70°C (with no icing or condensation)				
Ambient humi	dity range	Operating: 35%	to 85%, Storage	: 35% to 95% (wi	th no condensation	on)
Insulation resi	stance	20 M Ω min. at 5	00 VDC	AUTON	IATION	
Dielectric stre		1,500 VAC, 50/6				
Vibration	Destruction			•		Y, and Z directions
resistance	Malfunction	10 to 55 Hz with a 1.5 mm double amplitude for 2 hours each in X, Y, and Z directions 500 m/s² for 3 times each in X, Y, and Z directions				
Shock	Destruction			, and Z direction	S	
resistance	Malfunction	100 m/s ² for 3 tin and Z directions		500 m/s ² for 3 t	imes each in X, Y	, and Z directions
Degree of prot		IEC 60529 IP64				
Connection method		Pre-wired (stand	lard length: 2 m)	T		
Weight (packed state)		Approx. 180 g		Approx. 160 g		
	Case	ABS (Acrylonitril	Butadiene Styre	ene)		
Material	Lens/Display window	Methacrylic resin				
	Adjuster	РОМ				
	Cable	PVC				
Bending radiu	s of cable	R18				
Accessories		Instruction manu	ual and Mounting	Bracket (E3JK-I	DR1⊟-C only)	

Engineering Data (Reference Value)

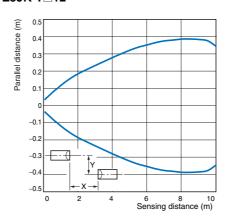
Parallel Operating Range





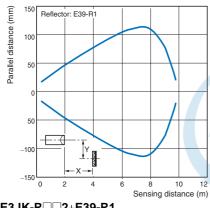


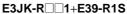
E3JK-T□12

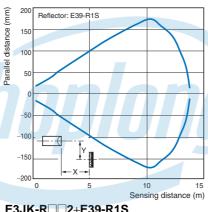


Retro-reflective

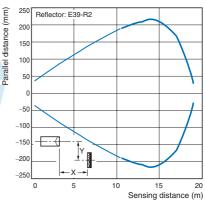




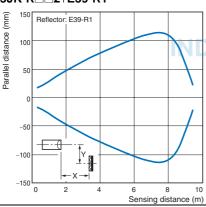




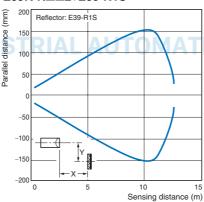
E3JK-R 1+E39-R2



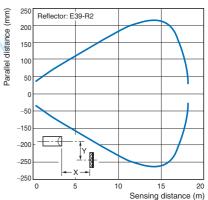
E3JK-R 2+E39-R1



E3JK-R 2+E39-R1S



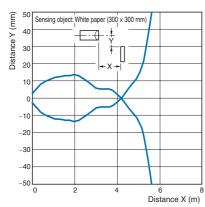
E3JK-R 2+E39-R2



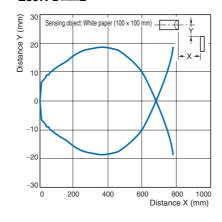
Operating Range

Diffuse-reflective

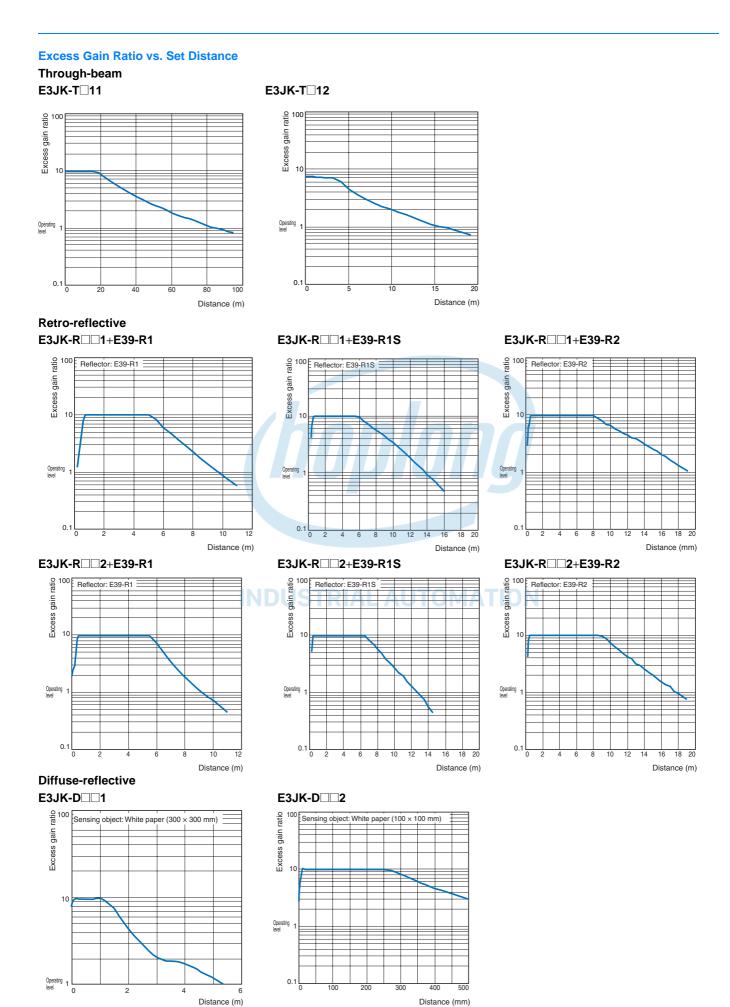
E3JK-D□□1



E3JK-D□□2

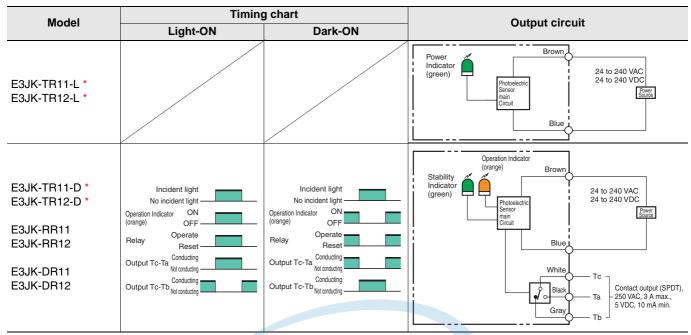


E3JK

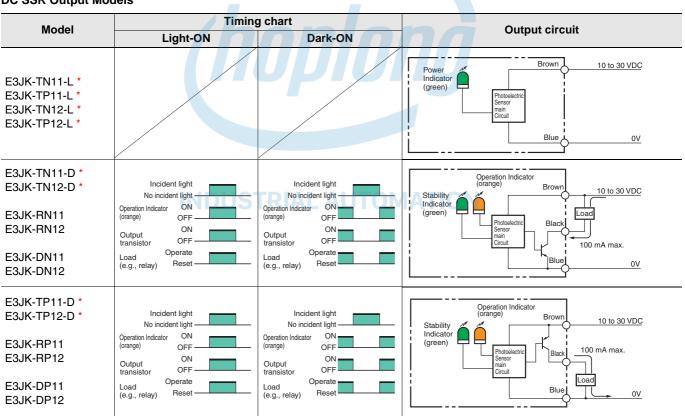


I/O Circuit Diagrams

Relay Output Models



DC SSR Output Models



Note: Connect the brown cable to any polarity and the blue cable to the power supply because there is no polarity on the Emitter side.

*For the Through-beam Sensor, the Emitter is listed as E3JK-T□11-L, E3JK-T□12-L and the Receiver is listed as E3JK-T□11-D, E3JK-T□12-D in the table. Confirm the models to order in "Ordering Information."

Safety Precautions

Refer to Warranty and Limitations of Liability.

MARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly.



Do not use it for such purposes.

Caution

Do not wire the product incorrectly.

Do not use this product with a damaged case or cable.



Do not disassemble, repair, or modify this product.



Doing so may lead to explosion, fire, or product failure.

Precautions for Safe Use

The following precautions must be observed to ensure safe operation of the Sensor.

- Do not use the Sensor in environments subject to flammable, explosive or corrosive gases.
- Do not use this product in an environment in which oil or chemicals are present.
- 3. Do not use this product under water, in the rain, or outdoors.
- Do not use this product under conditions that exceed or in an environment that exceeds the ratings.
- When using an AC power supply, do not use a power supply that includes high frequencies (such as an inverter).
- 6. Do not use this product in a location subject to direct sunlight.
- Do not use this product in a location in which the product will be subject to direct vibrations or impacts.
- 8. Do not use thinner, alcohol, or other organic solvents with this product.
- 9. When disposing of the Sensor, treat it as industrial waste.

Precautions for Correct Use

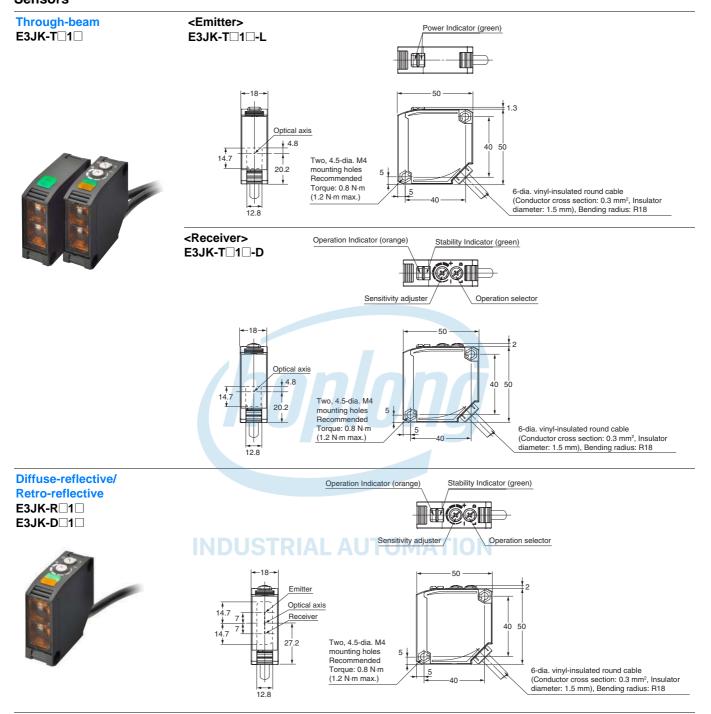
- If the product is wired to high-voltage power lines and power lines in the same pipe or the same duct, the product may malfunction or be damaged due to induction. Therefore, in principle, perform these two types of wiring separately or use shielded cords.
- Do not apply excessive force to the cables.
- When using a commercially available switching regulator, be sure to install an FG (frame ground terminal).
- The time between the product being turned ON and sensing being possible is 100 ms, so wait at least 100 ms after turning the product ON before using it. If the load and the product are connected to different power supplies, be sure to turn the product ON first.
- An output pulse may be generated when the product is turned OFF, so we recommend turning the load or the load line OFF first.



Dimensions

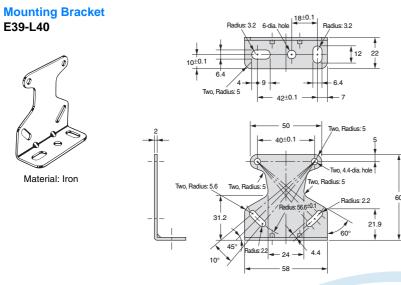
(Unit: mm)
Tolerance class IT16 applies to dimensions in this datasheet unless otherwise specified.

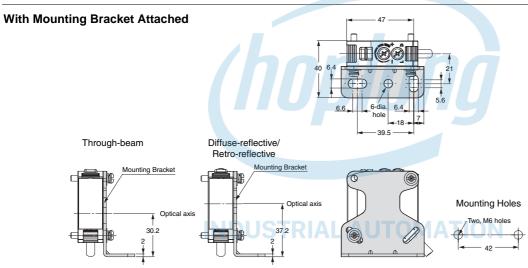
Sensors



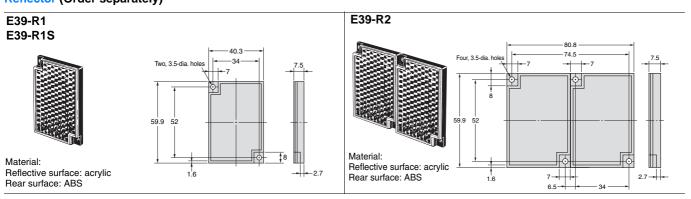
Accessories

Mounting Bracket (Order separately)





Reflector (Order separately)



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