Cylindrical photoelectric sensors in M18 plastic or brass housings

E3F2

- Complete sensor portfolio in plastic and metal housing
- IP67, IP69K for highest water resistance
- High immunity against electro-magnetic noise and ambient light
- Special beam models
- High power LED to compensate for dirt and misalignment



Performance and portfolio variety

Sensing method	Shape	Plastic	Metal ^{*1}	90° Optics	AC power supply 2
Through-beam		7 m	7 m	-	3 m
Retro-reflective		4 m	4 m	2 m	1 m
Diffuse-reflective		1 m	1 m	0.3 m	0.3 m
Diffuse-reflective (background suppression)		0.1 m	0.1 m		

^{*1}SUS types see seperate datasheet

L-on / D-on selectable by wiring M12 connector or pre-wired.





E3F2

^{*2}AC-types see seperate datasheet

Selection Guide

Housing Material: Plastic

Sensing method	3			od		Order code	
	distance	<u></u>	600	Ш	*1	PNP output	NPN output
Through-beam	7 m	_	_	2 m	_	E3F2-7B4 2M	E3F2-7C4 2M
		_		_	_	E3F2-7B4-P1	E3F2-7C4-P1
Retro-reflective with M.S.R.*2	0.1 to 4 m (adjustable)*3	_	_	2 m	_	E3F2-R4B4-E 2M	E3F2-R4C4-E 2M
	(aujustable)	_		_	_	E3F2-R4B4-P1-E	E3F2-R4C4-P1-E
Retro-reflective with M.S.R.*2	0.1 to 2 m ^{*4}	_	_	2 m	_	E3F2-R2RB41-E 2M	E3F2-R2RC41-E 2M
		_		_	_	E3F2-R2RB41-P1-E	E3F2-R2RC41-P1-E
Diffuse-reflective	0.1 m (fixed,	_	_	2 m	_	E3F2-DS10B4-N 2M	E3F2-DS10C4-N 2M
	wide-beam)	_		_	_	E3F2-DS10B4-P1	E3F2-DS10C4-P1
- 2	0.3 m	_	_	2 m	_	E3F2-DS30B4 2M	E3F2-DS30C4 2M
	(adjustable)	_		_	_	E3F2-DS30B4-P1	E3F2-DS30C4-P1
	1 m (adjustable)	-	_	2 m	_	E3F2-D1B4 2M	E3F2-D1C4 2M
		_		_	_	E3F2-D1B4-P1	E3F2-D1C4-P1
Diffuse-reflective	0.3 m (adjustable)	_	_	2 m	_	E3F2-DS30B41 2M	E3F2-DS30C41 2M
		_		_	_	E3F2-DS30B41-P1	E3F2-DS30C41-P1
Diffuse reflective (background suppression)	0.1 m (fixed)	_	_	2 m	_	E3F2-LS10B4 2M	E3F2-LS10C4 2M
		_		_	_	E3F2-LS10B4-P1	E3F2-LS10C4-P1

Note: Standard cable length is 2 m. Models provided with a 5 m long cable are available. When ordering, specify the cable length by adapting the length of the cable (e.g. E3F2-R4B4-E 5M). For other cable length please contact your OMRON sales representative.

Housing material: Metal (Nickel plated brass)

Sensing method	Sensing	Connection method				Order code	
	distance	000	000	Ш	*1	PNP output	NPN output
Through-beam	7 m	_	-	2 m	_	E3F2-7B4-M 2M	E3F2-7C4-M 2M
		_		_	_	E3F2-7B4-M1-M	E3F2-7C4-M1-M
Retro-reflective with M.S.R.*2	0.1 to 4 m (adjustable)*3	_	-	2 m	_	E3F2-R4B4-M-E 2M	E3F2-R4C4-M-E 2M
	(adjustable)	_		_	_	E3F2-R4B4-M1-M-E	E3F2-R4C4-M1-M-E
Retro-reflective with M.S.R.*2	0.1 to 2 m*4	_	-	2 m	_	E3F2-R2RB41-M-E 2M	E3F2-R2RC41-M-E 2M
		_		_	_	E3F2-R2RB41-M1-M-E	E3F2-R2RC41-M1-M-E
Diffuse-reflective	0.1 m (fixed, wide-beam)	_	_	2 m	_	E3F2-DS10B4-M 2M	E3F2-DS10C4-M 2M
		_		_	_	E3F2-DS10B4-M1-M	E3F2-DS10C4-M1-M
-	0.3 m (adjustable)	_	-	2 m	_	E3F2-DS30B4-M 2M	E3F2-DS30C4-M 2M
		_		_	_	E3F2-DS30B4-M1-M	E3F2-DS30C4-M1-M
	1 m	_	_	2 m	_	E3F2-D1B4-M 2M	E3F2-D1C4-M 2M
	(adjustable)	_		_	_	E3F2-D1B4-M1-M	E3F2-D1C4-M1-M
Diffuse-reflective	0.3 m (adjustable)	_	_	2 m	_	E3F2-DS30B41-M 2M	E3F2-DS30C41-M 2M
		_		-	_	E3F2-DS30B41-M1-M	E3F2-DS30C41-M1-M

Pre-wired connectors are available on request. Please contact your OMRON representative.

Order reflector seperately. Models with reflector included are also available. Please contact your OMRON representative.

Measured with reflector E39-R1S

Measured with reflector E39-R1

Sensing method	Sensing	Connection method				Order code	
	distance	©	()		*1	PNP output	NPN output
Diffuse-reflective (background suppression)	0.1 m (fixed)	_	-	2 m	-	E3F2-LS10B4-M 2M	E3F2-LS10C4-M 2M
□		_		1	-	E3F2-LS10B4-M1-M	E3F2-LS10C4-M1-M

Note: Standard cable length is 2 m. Models provided with a 5 m long cable are available. When ordering, specify the cable length by adapting the length of the cable (e.g. E3F2-R4B4-E 5M). For other cable length please contact your OMRON sales representative.

Accessories (Order Separately)

Name	Sensing distance (typical)*1	Remark	Order code
Reflectors	3 m [100 mm] (axial types) 2 m [100 mm] (radial types)	60 x 40 mm	E39-R1
	4 m [100 mm] (axial types) 2 m [100 mm] (radial types)	60 x 40 mm	E39-R1S
	5 m [100 mm] (axial types) 2.5 m [100 mm] (radial types)	Ø 84 mm	E39-R7
	6 m [100 mm] (axial types) 3 m [100 mm] (radial types)	100 x 100 mm	E39-R8
	5 m [100 mm] (axial types) 2.5 m [100 mm] (radial types)	80 x 80 mm	E39-R40
Tape Reflectors	0.7 m [150 mm] (axial types)	35 x 10 mm	E39-RS1
	1.1 m [150 mm] (axial types)	35 x 40 mm	E39-RS2
	1.4 m [150 mm] (axial types)	80 x 70 mm	E39-RS3
Lens Cap			E39-F31
Mounting Bracket		screw mount	Y92E-B18

^{*1.} Values in parentheses indicate the minimum required distance between the sensor and reflector.

For detailed information about Accessories, refer to the main chapter "Accessories" at the end of the document.

Sensor I/O Connectors

Cord	Shape	Cable type		Order code
Standard	Straight	2 m	Four-wire type	XS2F-D421-D80-A
		5 m		XS2F-D421-G80-A
	L-shaped	2 m		XS2F-D422-D80-A
		5 m		XS2F-D422-G80-A
Vibration-proof	Straight	2 m		XS2F-D421-D80-R
robot cable		5 m		XS2F-D421-G80-R
	L-shaped	2 m		XS2F-D422-D80-R
		5 m	=	XS2F-D422-G80-R

E3F2 3

 ^{1.} Pre-wired connectors are available on request. Please contact your OMRON representative.
 2. Order reflector separately. Models with reflector E39-R1S included are available. Please contact your OMRON representative.
 3. with reflector E39-R1S
 4. with reflector E39-R1

Specifications

Ratings

Item		E3F2-7□	E3F2-R4□-□	E3F2-DS10□	E3F2-DS30□	E3F2-D1□4-□	E3F2-LS10□4-□	
Sensing	method	Through-beam	Retro-reflective	Diffuse-reflective	1			
			with M.S.R.	Wide beam	Potentiometer ac	ljustment	Background suppression	
Power s	upply voltage	10 to 30 VDC						
Current	consumption	50 mA max.	30 mA max.	25 mA max.	30 mA max.			
Sensing	distance	7 m	0.1 to 4 m (with E39-R1S)	0.1 m (5 x 5 cm white mat paper)	0.3 m (10 x 10 cm white mat paper)	1 m (30 x 30 cm white mat paper)	0.1 m (10 x 10 cm white mat paper)	
Standard	d object	Opaque: 11 mm dia. min.	Opaque: 56 mm dia. min.	_				
Direction	nal angle	3° to 20°		_				
Different (hystere	tial travel sis)	_		20% max.			5% max	
Black/wl	hite error	_		1			3%	
Respons	se time	Operation and Reset: 2.5 ms max.	1 ms max	2.5 ms max.	2.5 ms max. 1 ms max.			
Control	output	Transistor (open collector), load current: 100 mA max. (residual voltage: 2 V max.)						
Power re	eset time	50 ms	50 ms 100 ms max. 50 ms 100 ms					
Ambient	illumination	Incandescent lam	p:3000 lx max. / S	Sunlight:10000 lx m	nax.			
Ambient	temperature	Operating: -25 to	55 °C / Storage: -3	30 to 70 °C (with n	o icing or condens	ation)		
Ambient	humidity	Operating: 35% to	o 85% / Storage: 3	35% to 95% (with n	o condensation)			
Insulatio	n resistance	20 MΩ min. at 50	0 V DC between e	nergized parts and	d case			
Dielectri	c strength	1000 VAC max.,	50 / 60 Hz for 1 mi	n between energi	zed parts and case	9		
Vibration	n resistance	10 to 55 Hz, 1.5 r	nm double amplitu	de for 2 hrs each	direction (X, Y, Z)			
Shock re	esistance		m/s ² each direction		<u> </u>			
Degree	of protection*1	IEC 60529 IP67,	IP69K after DIN 40	0050-9				
Light sou	urce (wave	Infrared LED (950 nm)	Red LED (660 nm)	Infrared LED (880	0 nm)		Red LED (660 nm)	
Indicator	rs	Light incident / power indicator for light source (red)	Light incident (red) / stability (green)	Light incident / polight source (red)		Light incident (red) / stability (green)	Output indicator (orange) / stability (green)	
Sensitivi	ity adjustment	Fixed	Adjustable	Fixed	Adjustable		Fixed	
Connect	tion method	2 m, 5 m pre-wire	ed cable (PVC, dia	. 4 mm (18 / 0.12)*	²) or M12-connect	or	*	
Operation	on mode	Light-ON or Dark	-ON selectable by	wiring				
Weight ((approx.)							
Plastic case	pre-wired (2 m)	120 g	60 g					
	connector	40 g	20 g					
Metal case	pre-wired (2 m)	180 g	90 g					
	connector	120 g	50 g					
Circuit p	rotection			ly reverse polarity				
Housing materials*3 Case: ABS (plastic models) or nickel brass (metal models); lens: PMMA					dels); lens: PMMA			

^{*1.} The IP69k test according to DIN 40 050 part 9 is intended to simulate high pressure/steam cleaning. During the test 14-16 l/min water at 80°C is sprayed onto the sensor from different angles with 8000-10000 kPa. The sensor may not suffer any damaging effects from high pressure water in appearance and functionality.

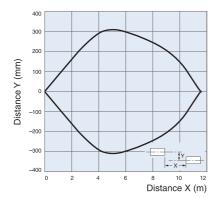
*2. For other cable materials (e.g. PUR) contact your OMRON sales representative.

^{*3.} For stainless steel types refer to separate datasheet E3F2 SUS

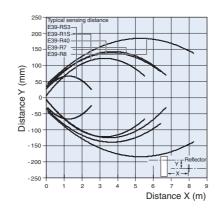
Engineering Data (Typical)

Operating Range (typical)

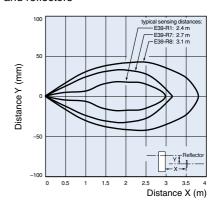
Through-beam Models (axial) E3F2-7 \square 4- \square



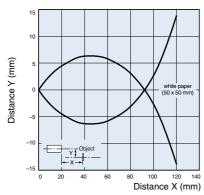
Retro-reflective Models (axial) E3F2-R4□4□-□ (polarizing)



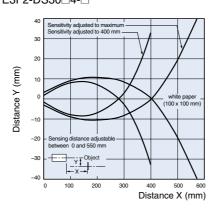
Retro-reflective Models (radial) E3F2-R2R□41-□ (polarizing) and reflectors



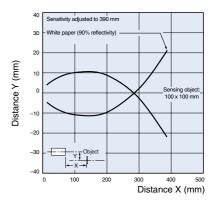
Diffuse-reflective Models (axial) E3F2-DS10 \Box 4- \Box (wide-beam type)



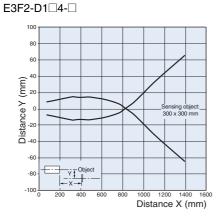
Diffuse-reflective Models (axial) E3F2-DS30□4-□



Diffuse-reflective Models (radial) E3F2-DS30□41-□



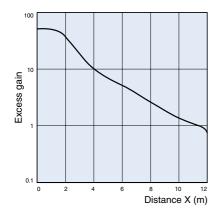
Diffuse-reflective Models (axial)



Excess Gain Ratio vs. Distance (typical)

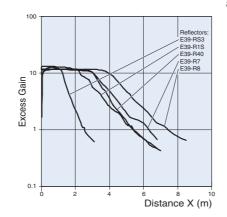
Through-beam Models (axial)

E3F2-7□4-□

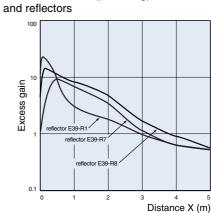


Retro-reflective Models (axial)

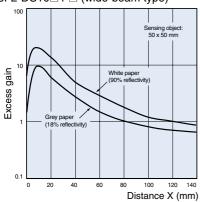
E3F2-R4□4□-□



Retro-reflective Models (radial) E3F2-R2R \square 41- \square (polarizing)

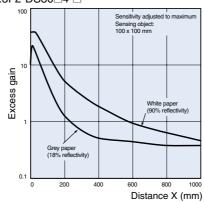


Diffuse-reflective Models (axial) E3F2-DS10□4-□ (wide-beam type)



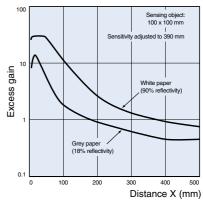
Diffuse-eflective Models (axial)

E3F2-DS30□4-□



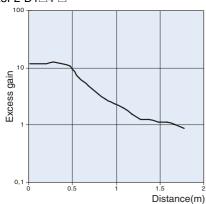
Diffuse-reflective Models (radial)

E3F2-DS30□41-□



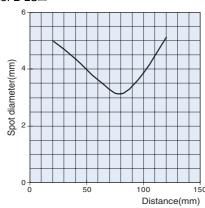
Diffuse-reflective Models (axial)

E3F2-D1□4-□



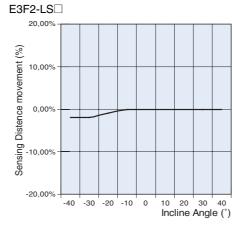
Light spot vs sensing distance

Background suppression Models E3F2-LS \square



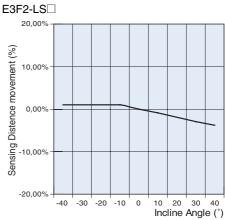
Incline (horizontal)

Background suppression Models



Incline (vertical)

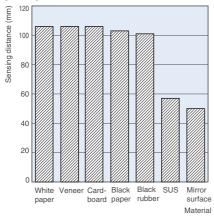
Background suppression Models



Object material vs sensing distance

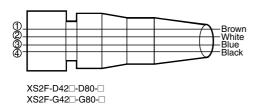
Background suppression Models





Operation

Output Circuits



Structure of Sensor I/O Connector

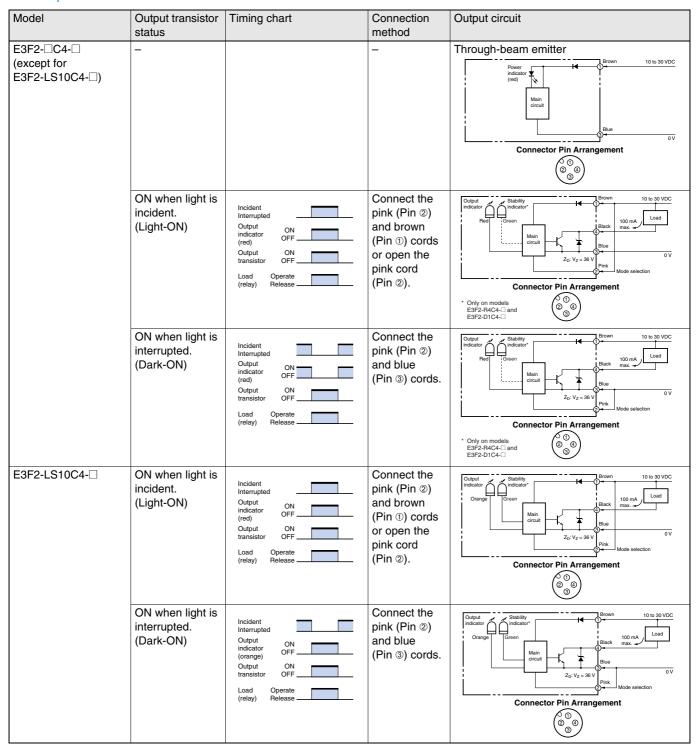
Classification	Wire color	Connector pin No.	Use
DC	Brown	1	Power supply (+V)
	White	2	Mode selection Lon/Don
	Blue	3	Power supply (0 V)
	Black	4	Output

PNP Output

Model	Output transistor status	Timing chart	Connection method	Output circuit
E3F2-□B4-□ (except for E3F2-LS10B4-□)	-	-	-	Through-beam emitter Power Indicator (red) Main circuit Connector Pin Arrangement (a) (b) (c) (c) (c) (c) (c) (c) (c
	ON when light is incident. (Light-ON)	Incident Interrupted Output ON indicator (red) OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	Connect the pink (Pin ②) and brown (Pin ③) cords or open the pink cord (Pin ②).	Stability indicator Stability Brown 10 to 30 VDC
	ON when light is interrupted. (Dark-ON)	Incident Interrupted Output indicator (red) OFF OFF International ON Unique ON Unique ON Unique OFF	Connect the pink (Pin 2) and blue (Pin 3) cords.	Light Indicator
E3F2-LS10B4-□	ON when light is incident. (Light-ON)	Incident Interrupted Output ON indicator OFF (orange) Output ON transistor OFF Load Operate (relay) Release	Connect the pink (Pin ②) and brown (Pin ③) cords or open the pink cord (Pin ②).	Output indicator indicator indicator indicator Z ₀ : V _Z = 36 V Blue max. Load max. Load max. Mode selection Connector Pin Arrangement Output indicator i
	ON when light is interrupted. (Dark-ON)	Incident Interrupted Output ON indicator (orange) Output ON transistor OFF Load Operate (relay) Release	Connect the pink (Pin ②) and blue (Pin ③) cords.	Output indicator Stability Indicator Crange Green Main circuit Black Bla

Note: Terminal numbers for connector type.

NPN Output

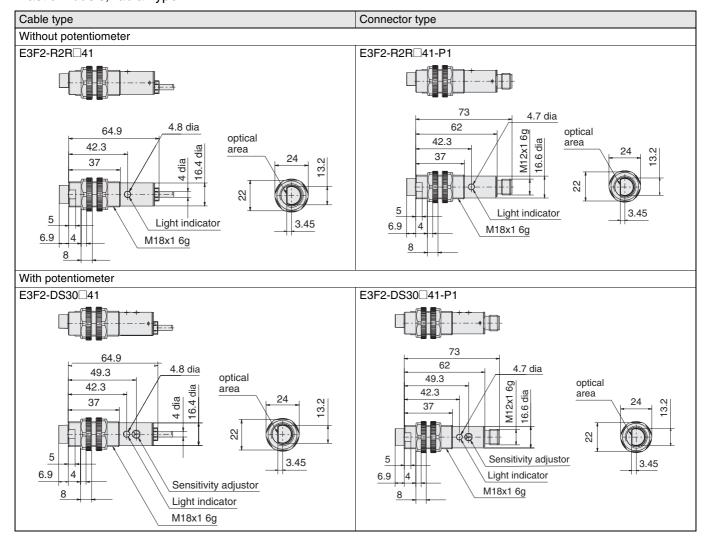


Note: Terminal numbers for connector type.

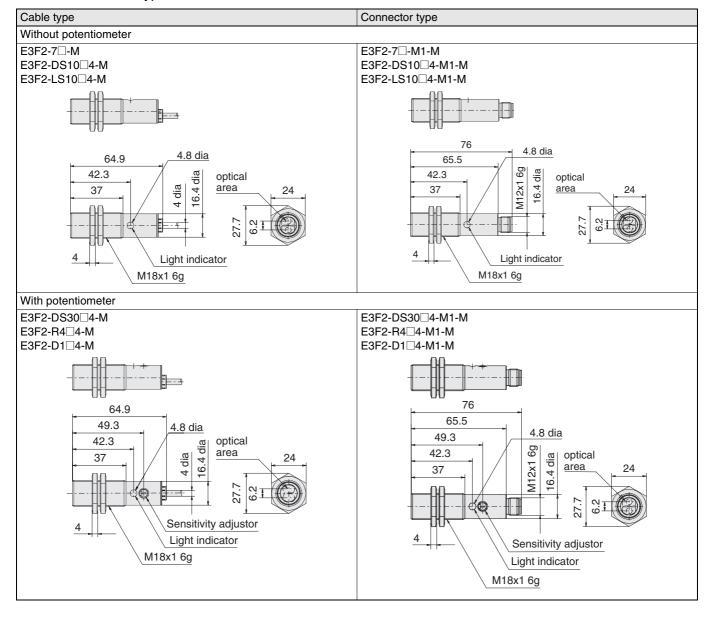
Plastic models, axial type

Cable type	Connector type
Without potentiometer	
E3F2-7□ E3F2-DS10□4-N E3F2-LS10□4	E3F2-7□-P1 E3F2-DS10□4-P1 E3F2-LS10□4-P1
42.3 37 Light indicator M18x1 6g	73 4.7 dia 62 9 9 0 optical area 24 Light indicator 4 8
With potentiometer	F0F0 D000□4 D4
E3F2-DS30□4 E3F2-D1□4	E3F2-DS30□4-P1 E3F2-D1□4-P1
E3F2-R4□	E3F2-R4□-P1
64.9 49.3 42.3 37 Sensitivity adjustor Light indicator M18x1 6g	73 62 4.7 dia 49.3 42.3 37 Sensitivity adjustor Light indicator M18x1 6g

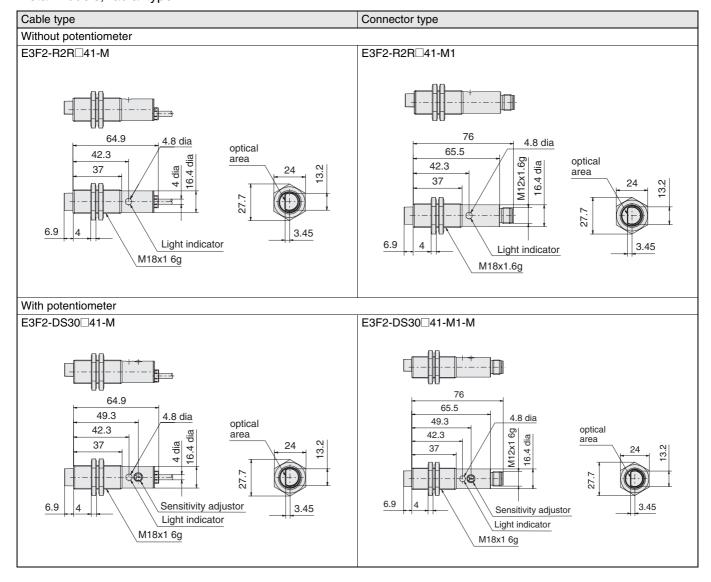
Plastic models, radial type



Metal Models, axial type

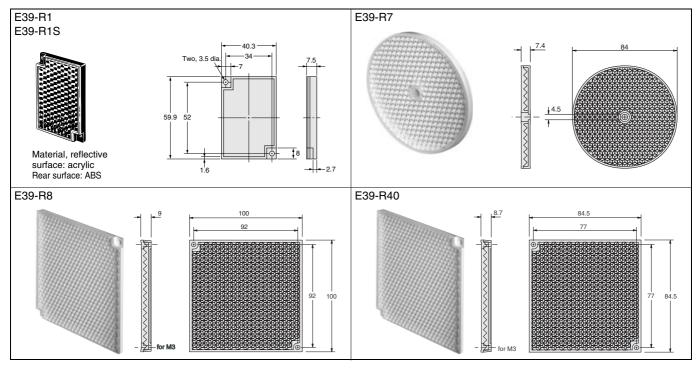


Metal Models, radial type

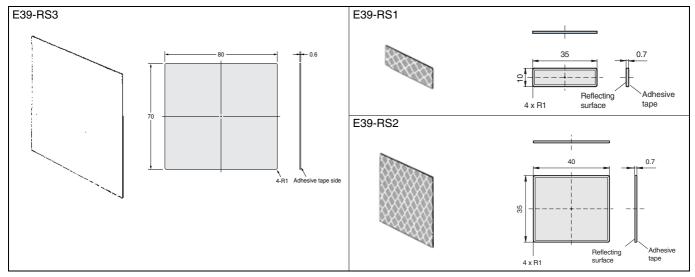


Accessories (Order Separately)

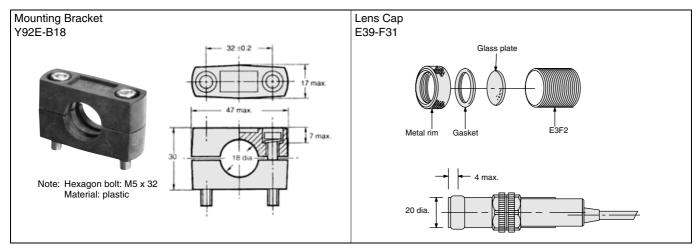
Reflector



Tape relectors



Installation



Safety precautions

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



∕!\ Caution

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



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



When cleaning the product, do not apply a high-pressure spray of water to one part of the product. Otherwise, parts may become damaged and the degree of protection may be degraded.



High-temperature environments may result in burn injury.



Precautions for Safe Use

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

Operating Environment

Do not use the Sensor in an environment where explosive or flammable gas is present.

Connecting Connectors

Be sure to hold the connector cover when inserting or removing the connector. Be sure to tighten the connector lock by hand; do not use pliers or other tools. If the tightening is insufficient, the degree of protection will not be maintained and the Sensor may become loose due to vibration. The appropriate tightening torque is 0.39 to 0.49 N·m for M12 connectors.

Load

Do not use a load that exceeds the rated load.

Rotation Torque for Sensitivity Adjustment

Adjust with a torque of 0.05 N·m or less.

Environements with Cleaners and Disinfectants (e.g., Food Processing Lines)

Do not use the Sensor in environments subject to cleaners and disifectants. They may reduce the degree of protection.

Modifications

Do not attempt to disassemble, repair, or modify the Sensor. Outdoor Use

Do not use the Sensor in locations subject to direct sunlight.

Do not use thinner, alcohol, or other organic solvents. Otherwise, the optical properties and degree of protection may be degraded. Surface Temperature

Burn injury may occur. The Sensor surface temperature rises depending on application conditions, such as the surrounding temperature and the power supply voltage. Use caution when operating or washing the Sensor.

Precautions for Correct Use

Do not use the Sensor in any atmosphere or environment that exceeds the ratings.

Do not install the Sensor in the following locations.

- (1) Locations subject to direct sunlight
- (2) Locations subject to condensation due to high humidity
- (3) Locations subject to corrosive gas
- (4) Locations where the Sensor may receive direct vibration or shock

Connecting and Mounting

- (1) 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.
- (2) Laying Sensor wiring in the same conduit or duct as high-voltage wires or power lines may result in malfunction or damage due to induction. As a general rule, wire the Sensor in a separate conduit or use shielded cable.
- (3) Use an extension cable with a minimum thickness of 0.3 mm² and less than 100 m long.
- (4) Do not pull on the cable with excessive force.
- (5) Pounding the Photoelectric Sensor with a hammer or other tool during mounting will impair water resistance.
- (6)Mount the Sensor using a bracket (sold separately). Do not exceed a torque of 2.0 Nm when tightening mounting nuts for plastic models or 20.0 Nm when tightening mounting nuts for metal models
- (7) Be sure to turn OFF the power supply before inserting or removing the connector.

Cleaning

Never use thinner or other solvents. Otherwise, the Sensor surface may be dissolved.

Power Supply

If a commercial switching regulator is used, ground the FG (frame ground) terminal.

Power Supply Reset Time

The Sensor will be able to detect objects 100 ms after the power supply is tuned ON. Start using the Sensor 100 ms or more after turning ON the power supply. If the load and the Sensor are connected to separate power supplies, be sure to turn ON the Sensor first.

Turning OFF the Power Supply

Output pulses may be generated even when the power supply is OFF. Therefore, it is recommended to first turn OFF the power supply for the load or the load line.

Load Short-circuit Protection

This Sensor is equipped with load short-circuit protection, but be sure to not short circuit the load. Be sure to not use an output current flow that exceeds the rated current. If a load short circuit occurs, the output will turn OFF, so check the wiring before turning ON the power supply again. The short-circuit protection circuit will be reset.

Water Resistance

Do not use the Sensor in water, rainfall, or outdoors.

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

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- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
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Cat. No. E58E-EN-01

In the interest of product improvement, specifications are subject to change without notice.

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