# E3FC

## Best durability for wash-down applications

- High grade steel housing (SUS316L)
- Withstands heat shock conditions
- Epoxy resin preventing water ingress if connector is not fixed properly
- Proven with various industrial detergents of Ecolab and Diversey (Details see page 10)
- Bright visible red LED enabling easy alignment



## **Ordering Information**

Sensors			[	Red light Infrared light
Compan tumo	Canaina diatana	Connection method		Model
Sensor type	Sensing distance	Connection method	NPN output	PNP output
Through-beam		pre-wired	E3FC-TN11 2M *1	E3FC-TP11 2M *1
	))  20 m	M12 connector	E3FC-TN21 *1	E3FC-TP21 *1
Retro-reflective with MSR function *2		pre-wired	E3FC-RN11 2M	E3FC-RP11 2M
	0.1 to 4 m with E39-R1S	M12 connector	E3FC-RN21	E3FC-RP21
Diffuse-reflective *3		pre-wired	E3FC-DN12 2M	E3FC-DP12 2M
	300 mm	M12 connector	E3FC-DN22	E3FC-DP22
<b>=</b>	1 m	pre-wired	E3FC-DN13 2M	E3FC-DP13 2M
		M12 connector	E3FC-DN23	E3FC-DP23
	□300 mm	pre-wired	E3FC-DN15 2M	E3FC-DP15 2M
		M12 connector	E3FC-DN25	E3FC-DP25
	1 m	pre-wired	E3FC-DN16 2M	E3FC-DP16 2M
		M12 connector	E3FC-DN26	E3FC-DP26
BGS *3 (background suppression)	100 mm	pre-wired	E3FC-LN11 2M	E3FC-LP11 2M
	<u> </u> 100 mm	M12 connector	E3FC-LN21	E3FC-LP21
	■200 mm	pre-wired	E3FC-LN12 2M	E3FC-LP12 2M
		M12 connector	E3FC-LN22	E3FC-LP22
Transparent object detection (co-axial retro-reflective with MSR*2)	100 to 500 mm	pre-wired	E3FC-BN11 2M	E3FC-BP11 2M
□ ↔	100 to 500 mm with E39-RP1	M12 connector	E3FC-BN21	E3FC-BP21

<sup>\*1.</sup> The set type includes the emitter and receiver.

<sup>\*2.</sup> The Reflector is sold separately. Select the Reflector model most suited to the application.
\*3. L-On fixed output available for Diffuse reflective and BGS models. Please add "A" in order code (e.g. E3FC-DP11A 2M)

Reflectors [Refer to *Dimensions on page 12.*]
Reflectors required for Retro-reflective Sensors: A Reflector is not provided with the Sensor. Be sure to order a Reflector separately.

Sensing distance	Appearance	Model	Material	Remarks
0.1 to 4 m		E39-R1S	ABS, PMMA	IP67
0.1 to 4 m		E39-R50	PET	IP67, IP69K Ecolab tested plastic material
0 to 500 mm		E39-RP1	ABS, PMMA	for E3FC-B, enhanced PET detection, IP67
0.1 to 2 m		E39-R16	SUS316L, glass (window)	enhanced chemical resistance for pharma industry IP67, IP68, IP69K

#### Mounting brackets [Refer to Dimensions on page 12.]

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

Sensor	Appearance	Model (Material)	Material	Remarks
all types		E39-L183	SUS304	Mounting bracket
	0	E39-EL16	SUS316L	M18 Flush mounting nut

### Sensor I/O connectors

Models for Connectors: A Connector is not provided with the Sensor. Be sure to order a Connector separately.

Sensor	Model	Material	Α	ppearance	Cable	type	Model
			Straight	TO THE STATE OF TH	2 m		Y92E-S12PVC4S2M-L
M12 connector types	Detergent resistant	resistant PVC Connector:	Detergent   °		5 m	4	Y92E-S12PVC4S5M-L
M12 connector types	connector cable		Angle (		2 m	4-wire	Y92E-S12PVC4A2M-L
			,gio		5 m		Y92E-S12PVC4A5M-L

**OMRON** 

## **Ratings and Specifications**

	Sensir	ng method	Through-beam	Retro-reflective with MSR function				
Model	NPN	Pre-wired	E3FC-TN11 2M	E3FC-RN11 2M				
	output	M12 Connector	E3FC-TN21	E3FC-RN21				
	PNP	Pre-wired	E3FC-TP11 2M	E3FC-RP11 2M				
Item	output	M12 Connector	E3FC-TP21	E3FC-RP21				
Sensing dis	Sensing distance		20 m	0.1 to 4 m (with E39-R1S)				
Spot diame	ter (refere	nce value)	<del>-</del>					
Standard s	ensing ob	ject	Opaque: 7 mm dia.min.	Opaque: 75 mm dia.min.				
Differential	travel		-	<del>-</del>				
Directional	angle		2° min.					
Light source	e (wavele	ngth)	Red LED (624 nm)	Red LED (624 nm)				
Power supp	oly voltage	<b>;</b>	10 to 30 VDC (include voltage ripple of 10%(p-p) ma	ax.)				
Current co	nsumption	ı	40 mA max. (Emitter 25 mA max. Receiver 15 mA max.)	25 mA max.				
Control out	put		NPN/PNP (open collector) Load current: 100 mA max. (Residual voltage: 3 V max.), Load power supply voltage: 30 VDC max.					
Operation r	node		Light-ON/Dark-ON selectable by wiring *1.					
Indicator			Operation indicator (orange) Stability indicator (green) Power indicator (green): only Emitter of Through-beam					
Protection	circuits		Power supply reverse polarity protection, Output short-circuit protection, and Output reverse polarity protection					
Response t	ime		0.5 ms					
Sensitivity	adjustmer	nt	Fixed					
Ambient illu	mination (	Receiver side)	, , , , , , , , , , , , , , , , , , ,					
Ambient te	mperature	range	Operating: -25 to 55°C/ Storage: -30 to 70°C (with no icing or condensation)					
Ambient hu	ımidity rar	nge	Operating: 35 to 85%/ Storage: 35 to 95% (with no condensation)					
Insulation r	esistance		20 MΩ min. at 500 VDC					
Dielectric s	trength		1,000 VAC at 50/60 Hz for 1 min. between current-carrying parts and case					
Vibration re	esistance		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 <sup>2</sup> 3 times each in X, Y and Z directions					
Degree of p	rotection		IEC: IP67, IP68 *2., DIN 40050-9: IP69K *3.					
Weight	Pre-wired	l cable (2M)	152 g	76 g				
Troigit	Connecto	or	44 g	22 g				
	Case		SUS 316L (1.4404)					
Material	Lens and	Display	PMMA					
water iai	Adjuster							
	Nut		SUS 316L (1.4404)					
Accessorie	s		Instruction sheet M18 nuts (4 pcs)	Instruction sheet M18 nuts (2 pcs)				

<sup>\*1.</sup> L-On fixed output available for Diffuse reflective and BGS models. Please add "A" in order code (e.g. E3FC-DP11A 2M)

22. IP68 begree of Protection Specifications
IP68 is defined by heat shock resistance with 20 test cycles of 30 min. changing between 3° and 60° surface tensioned water.
\*3. IP69K Degree of Protection Specifications
IP69K is a protection specification stipulated by DIN 40050 Part 9 of the German standards.
The test item is sprayed with 80°C water from a nozzle of a specified shape at a water pressure of 80 to 100 bar. The amount of water is 14 to 16 liters per minute.

The distance between the test item and the nozzle is 10 to 15 cm. The water is discharged at angles of 0°, 30°, 60°, and 90° from the horizontal plane for 30 seconds at each angle while the test item is rotated horizontally.



<sup>\*2.</sup> IP68 Degree of Protection Specifications

	Sensi	ng method		Diffu	se-reflective		
Model	NPN	Pre-wired	E3FC-DN12 2M	E3FC-DN13 2M	E3FC-DN15 2M	E3FC-DN16 2M	
	output	M12 Connector	E3FC-DN22	E3FC-DN23	E3FC-DN25	E3FC-DN26	
	PNP	Pre-wired	E3FC-DP12 2M	E3FC-DP13 2M	E3FC-DP15 2M	E3FC-DP16 2M	
Item	output	M12 Connector	E3FC-DP22	E3FC-DP23	E3FC-DP25	E3FC-DP26	
			300 mm	1 m	300 mm	1 m	
Sensing di	stance		(white paper:	(white paper:	(white paper:	(white paper:	
			300 × 300 mm)	300 × 300 mm)	300 × 300 mm)	300 × 300 mm)	
			40 × 50 mm	120 × 150 mm	$40 \times 50 \text{ mm}$	120 × 150 mm	
Spot diame	eter (refere	ence value)	Sensing distance	Sensing distance	Sensing distance	Sensing distance	
			of 300 mm	of 1 m	of 300 mm	of 1 m	
Standard s		ject			_		
Differential			20% max.				
Directional	angle				_		
Light source	ce (wavele	ngth)	Red LED (624 nm)		Infrared LED (850 nm	)	
Power sup	ply voltag	е	10 to 30 VDC (include	e voltage ripple of 10%(p-p	) max.)		
Current co	nsumptio	1	25 mA max.				
Control ou	tout.		NPN/PNP (open collector)				
	•		Load current: 100 mA max. (Residual voltage: 3 V max.), Load power supply voltage: 30 VDC max.				
Operation	mode		Light-ON/Dark-ON selectable by wiring *3.				
Indicator			Operation indicator (orange)				
iliuicatoi			Stability indicator (green)				
Protection			Power supply reverse polarity protection, Output short-circuit protection, and Output reverse polarity protection				
Response	time		0.5 ms				
Sensitivity	-	nt	One-turn adjuster				
Ambient illu	umination		Incandescent lamp: 3,000 lx max./ Sunlight: 10,000 lx max.				
Ambient te	mperature	range	Operating: -25 to 55°C/ Storage: -30 to 70°C (with no icing or condensation)				
Ambient hu	umidity ra	nge	Operating: 35 to 85%/ Storage: 35 to 95% (with no condensation)				
Insulation	resistance	)	20 M $\Omega$ min. at 500 VDC				
Dielectric strength		1,000 VAC at 50/60 Hz for 1 min. between current-carrying parts and case					
Dielectric s	Vibration resistance			iz for i min. Detween curre	The dairying parts and dade		
	esistance			Hz, 1.5 mm double amplitu		and Z directions	
			Destruction: 10 to 55	Hz, 1.5 mm double amplitu	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi	stance		Destruction: 10 to 55 Destruction: 500 m/s <sup>2</sup>	Hz, 1.5 mm double amplitu 3 times each in X, Y and 2	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi Degree of p	stance protection	d cable (2M)	Destruction: 10 to 55 Destruction: 500 m/s <sup>2</sup> IEC: IP67, IP68 *2., I	Hz, 1.5 mm double amplitu	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi Degree of p	stance protection	d cable (2M)	Destruction: 10 to 55 Destruction: 500 m/s <sup>2</sup> IEC: IP67, IP68 *2., I 76 g	Hz, 1.5 mm double amplitu 3 times each in X, Y and 2	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi	stance protection Pre-wire	d cable (2M)	Destruction: 10 to 55 Destruction: 500 m/s <sup>2</sup> IEC: IP67, IP68 *2., I 76 g 22 g	Hz, 1.5 mm double amplitu 3 times each in X, Y and 2	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi Degree of p Weight	orotection Pre-wire Connect Case	d cable (2M) or	Destruction: 10 to 55 Destruction: 500 m/s <sup>2</sup> IEC: IP67, IP68 *2., I 76 g 22 g SUS 316L (1.4404)	Hz, 1.5 mm double amplitu 3 times each in X, Y and 2	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi Degree of p Weight	Pre-wired Connect Case Lens and	d cable (2M) or d Display	Destruction: 10 to 55 Destruction: 500 m/s <sup>2</sup> IEC: IP67, IP68 *2., I 76 g 22 g SUS 316L (1.4404) PMMA	Hz, 1.5 mm double amplitu 3 times each in X, Y and 2	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi Degree of p	protection Pre-wire Connect Case Lens and Adjuster	d cable (2M) or d Display	Destruction: 10 to 55 Destruction: 500 m/s² IEC: IP67, IP68 *2., I 76 g 22 g SUS 316L (1.4404) PMMA POM	Hz, 1.5 mm double amplitu 3 times each in X, Y and 2	ide for 2 hours each in X,	and Z directions	
Vibration re Shock resi Degree of p Weight	Pre-wired Connect Case Lens and	d cable (2M) or d Display	Destruction: 10 to 55 Destruction: 500 m/s <sup>2</sup> IEC: IP67, IP68 *2., I 76 g 22 g SUS 316L (1.4404) PMMA	Hz, 1.5 mm double amplitu 3 times each in X, Y and 2	ide for 2 hours each in X,	and Z directions	

<sup>\*1.</sup> L-On fixed output available for Diffuse reflective and BGS models. Please add "A" in order code (e.g. E3FC-DP11A 2M)

\*2. IP68 Degree of Protection Specifications

IP68 is defined by heat shock resistance with 20 test cycles of 30 min. changing between 3° and 60° surface tensioned water.

\*3. IP69K Degree of Protection Specifications

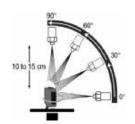
IPSIX Degree of Protection Specifications
IP69K is a protection specification stipulated by DIN 40050 Part 9 of the German standards.
The test item is sprayed with 80°C water from a nozzle of a specified shape at a water pressure of 80 to 100 bar. The amount of water is 14 to 16 liters per minute.
The distance between the test item and the nozzle is 10 to 15 cm. The water is discharged at angles of 0°, 30°, 60°, and 90° from the horizontal plane for 30 seconds at each angle while the test item is rotated horizontally.



	Sensi	ng method	BGS (Backgro	ound suppression)	Transparent detected with P-opaquing function		
Model	NPN	Pre-wired	E3FC-LN11 2M	E3FC-LN12 2M	E3FC-BN11 2M		
	output	M12 Connector	E3FC-LN21	E3FC-LN22	E3FC-BN21		
	PNP	Pre-wired	E3FC-LP11 2M	E3FC-LP12 2M	E3FC-BP11 2M		
Item	output	M12 Connector	E3FC-LP21	E3FC-LP22	E3FC-BP21		
Sensing distance			100 mm (white paper: 300 × 300 mm)	200 mm (white paper: 300 × 300 mm)	100 to 500 mm (with E39-RP1)		
Spot diame	eter (refer	ence value)	10 × 10 mm Sensing distance of 100 mm	$10 \times 15$ mm Sensing distance of 200 mm	_		
Standard s	ensing ob	ject		_	glass (t = 1.0 mm): 150 × 150 mm		
Differential	travel		20% max.		_		
Directional	angle			_			
Light source	e (wavele	ength)	Red LED (624 nm)				
Power supp	ply voltag	е	10 to 30 VDC (include voltage rip	pple of 10%(p-p) max.)			
Current co	nsumptio	n	25 mA max.				
Control out	Control output		NPN/PNP (open collector) Load current: 100 mA max. (Residual voltage: 3 V max.), Load power supply voltage: 30 VDC max.				
Operation i	mode		Light-ON/Dark-ON selectable by wiring *1.				
Indicator			Operation indicator (orange) Stability indicator (green)				
Protection	circuits		Power supply reverse polarity protection, Output short-circuit protection, and Output reverse polarity protection				
Response t	time		0.5 ms				
Sensitivity	adjustme	nt	Fixed	One-turn adjuster			
Ambient ill	uminatior	ı	Incandescent lamp: 3,000 lx max./ Sunlight: 10,000 lx max.				
Ambient te	mperature	e range	Operating: -25 to 55°C/ Storage: -30 to 70°C (with no icing or condensation)				
Ambient hu	ımidity ra	nge	Operating: 35 to 85%/ Storage: 35 to 95% (with no condensation)				
Insulation I	resistance	)	20 MΩ min. at 500 VDC				
Dielectric s	trength		1,000 VAC at 50/60 Hz for 1 min. between current-carrying parts and case				
Vibration re	esistance		Destruction: 10 to 55 Hz, 1.5 mm double amplitude for 2 hours each in X, Y and Z directions				
Shock resis	stance		Destruction: 500 m/s <sup>2</sup> 3 times ea	ach in X, Y and Z directions			
Degree of p	orotection	1	IEC: IP67, IP68 *2., DIN 40050-	9: IP69K *3.	IEC: IP67, DIN 40050-9: IP69K *3		
Weight (packed	Pre-wire	d cable (2M)	76 g		Approx. 95 g/Approx. 65 g		
state/only sensor)	Connect	or	22 g	22 g			
	Case		SUS316L (1.4404)				
Material	Lens and	d Display	PMMA				
waterial	Adjuster		_		POM		
	Nut		SUS316L (1.4404)		'		
Accessorie	s		Instruction sheet M18 nuts (2 pcs)				

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water is 14 to 16 liters per minute. The distance between the test item and the nozzle is 10 to 15 cm. The water is discharged at angles of 0°, 30°, 60°, and 90° from the horizontal plane for 30 seconds at each angle while the test item is rotated horizontally.



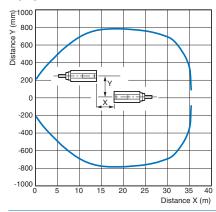
<sup>\*1.</sup> L-On fixed output available for Diffuse reflective and BGS models. Please add "A" in order code (e.g. E3FC-DP11A 2M)
\*2. IP68 Degree of Protection Specifications
IP68 is defined by heat shock resistance with 20 test cycles of 30 min. changing between 3° and 60° surface tensioned water.

<sup>\*3.</sup> IP69K Degree of Protection Specifications

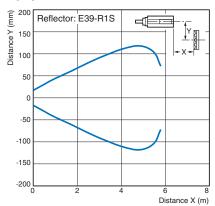
## **Engineering Data (Reference Value)**

#### **Parallel Operating Range**

## Through-beam Models E3FC-T□

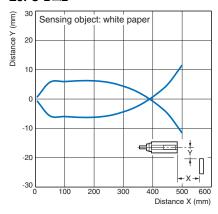


## Retro-reflective Models (with MSR function) E3FC-R $\Box$

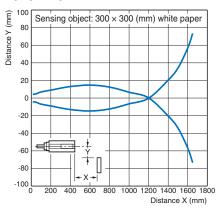


#### **Operating Range**

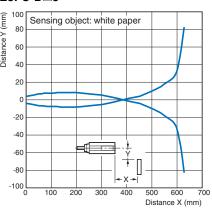
## Diffuse-reflective Models E3FC-D□2



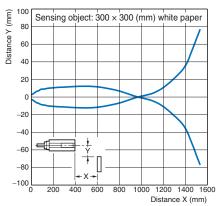
#### E3FC-D□3



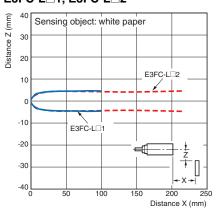
E3FC-D□5



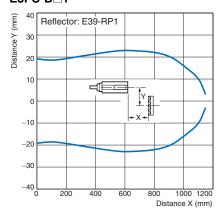
#### E3FC-D□6



BGS Models E3FC-L□1, E3FC-L□2

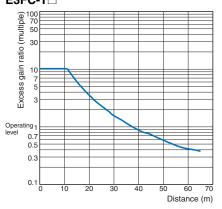


Transparent object detection models E3FC-B $\square$ 1

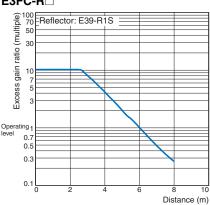


#### **Excess Gain vs. Distance**

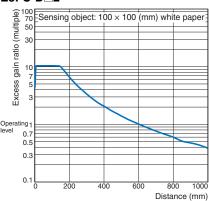
## Through-beam Models E3FC-T□



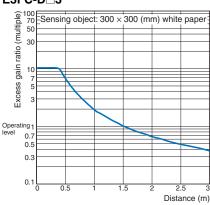
## Retro-reflective Models (with MSR function) E3FC-R $\Box$



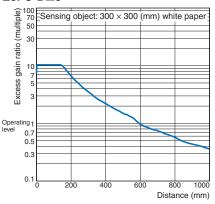
## Diffuse-reflective Models E3FC-D□2



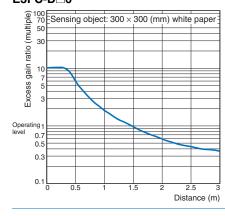
### E3FC-D□3



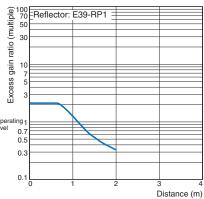
E3FC-D□5



### E3FC-D□6

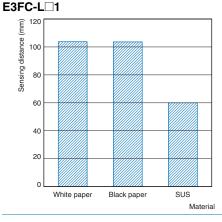


## Transparent object detection models E3FC-B□1

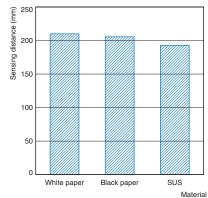


#### **Sensing Distance vs. Sensing Object Material**

### **BGS Models**



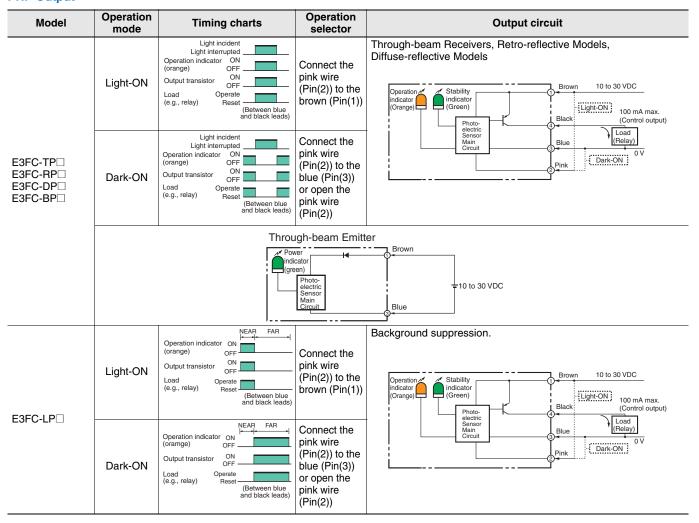
#### E3FC-L□2



### E3FC

### **Output circuit diagram**

#### **PNP Output**



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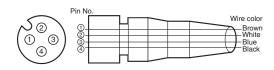
### **NPN Output**

Model	Operation mode	Timing charts	Operation selector	Output circuit		
	Light-ON	Light incident Light interrupted Operation indicator ON (orange) OFF Output transistor OFF Load Operate (e.g., relay) Reset (Between brown and black leads)	Connect the pink wire (Pin(2)) to the brown (Pin(1)) or open the pink wire (Pin(2))	Through-beam Receivers, Retro-reflective Models, Diffuse-reflective Models  Operation Indicator (Orange)  Stability Indicator (Orange)  Brown I0 to 30 VDC Indicator (Green)  Black Indicator (Green)  Black Indicator (Orange)  Do mA max.		
E3FC-TN E3FC-RN E3FC-DN E3FC-BN	Dark-ON	Light incident Light interrupted Operation indicator ON (orange) OFF Output transistor OFF Load Operate (e.g., relay) Reset (Between brown and black leads)	Connect the pink wire (Pin(2)) to the blue (Pin(3))	nect the wire 2)) to the		
		Ar Pov	icator	Brown  To to 30 VDC		
E3FC-LN□	Light-ON	Operation indicator ON OFF Output transistor ON OFF Load (e.g., relay) Operate Reset (Between brown and black leads)	Connect the pink wire (Pin(2)) to the brown (Pin(1)) or open the pink wire (Pin(2))	Background suppression.  Operation  Indicator (Orange)  Operation  Stability Indicator (Green)  Photo- electric  Black  Brown  10 to 30 VDC  Load (Belay)  Black  Too mA max.		
ESPC-LINU	Dark-ON	Operation indicator ON OFF Output transistor ON OFF Load (e.g., relay)  Operate Reset (Between brown and black leads)	Connect the pink wire (Pin(2)) to the blue (Pin(3))	electric Sensor Main Circuit 3Blue (Control output)  Pink Dark-ON 0		

## **Connector Pin Arrangement** M12 Connector Pin Arrangement



## Connectors (Sensor I/O connectors) M12 4-wire Connectors



Classification	Wire color	Connector pin No.	Application
	Brown	1	Power supply (+V)
DC	White	2	L/on · D/on selectable
ЪС	Blue	3	Power supply (0 V)
	Black	4	Output

### **Safety Precautions**

#### Refer to Warranty and Limitations of Liability.



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





Never use the product with an AC power supply. Do not use the product with voltage in excess of the rated voltage.



Do not use the product with incorrect wiring.

Otherwise, explosion, fire, malfunction may result.



#### **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, flammable or corrosive gas.
- Do not use the sensor under the oil or chemical environment exceeding specifications. Performance is assured for typical detergents and disinfectants used in Food & Beverage industry. Refer to the following table when using these agents:

Manufacturer	Product name	Concen- tration	Testtime
	Diverfoam SMS HD	5%	720 h
	Oxofoam	5%	720 h
Diversey	Acifoam	5%	720 h
	Divosan Hypochlorit	1%	720 h
	Divosan Forte	1%	720 h
	P3-topactive® 200	5%	720 h
	P3-topax® 56	5%	720 h
Ecolab	P3-topactive® OKTO	3%	720 h
	P3-topax® 990	3%	720 h
	P3-topax® 66	3%	720 h
General	H <sub>2</sub> O <sub>2</sub>	6,5%	240 h

- Do not use the sensor under the environment under the other conditions in excess of rated.
- 4. Do not use the sensor in place that is exposed by direct sunlight.
- Do not use the sensor in place where the sensor may receive direct vibration or shock.
- 6. Do not use the thinner, alcohol, or other organic solvents.
- 7. Never disassemble, repair nor tamper with the sensor.
- 8. Please process it as industrial waste.

#### **Precautions for Correct Use**

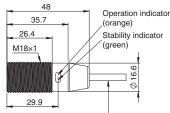
- Laying Sensor wiring in the same conduit or duct as high-voltage wires or power lines may result in malfunction or damage due to conduit or use shielded cable.
- 2. Do not pull on the cable with excessive force.
- If a commercial switching regulator is used, ground the FG (frame ground) terminal.
- 4. The sensor will be available 100 ms after the power supply is tuned ON. Start to use 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.
- 5. 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.
- 6. The sensor must be mounted using the provided nuts. The proper tightening torque is 20 N°m max..

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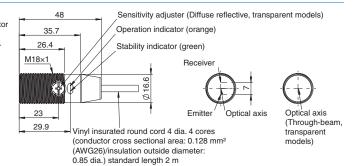
#### **Dimensions**

#### **Sensors**





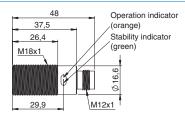
Vinvl insurated round cord 4 dia, 4 cores (conductor cross sectional area: 0.128 mm² (AWG26)/insulation outside diameter: 0.85 dia.) standard length 2 m

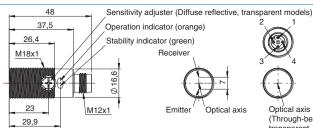


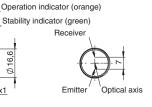
#### **M12 Connector Models**

E3FC-T□2□ E3FC-R□2□ E3FC-D□2□ E3FC-L□2□ E3FC-B□2□







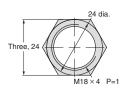


Optical axis (Through-beam, transparent models)

Terminal No.	Specification
1	+V
2	L/on · D/on selectable
3	0V
4	Output

#### **Attached nut**



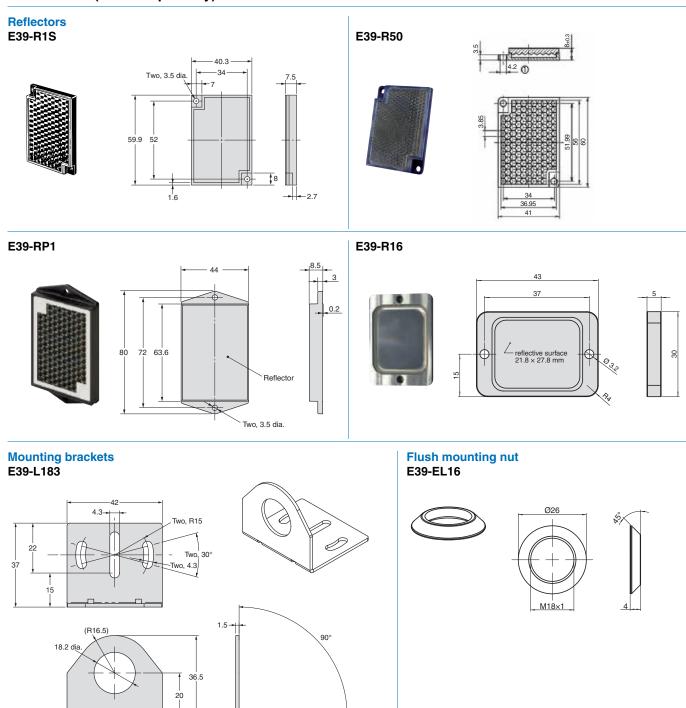




**OMRON** 

## E3FC

### **Accessories (Order Separately)**



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. E98E-EN-02

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

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