

# E3FC

## Best durability for wash-down applications




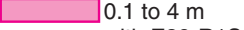










- High grade steel housing (SUS316L)
- Withstands heat shock conditions
- Epoxy resin preventing water ingress if connector is not fixed properly
- Proven with various industrial detergents of Ecolab and Diversey (Details see page 10)
- Bright visible red LED enabling easy alignment



## Ordering Information

### Sensors

Red light    Infrared light

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

\*1. The set type includes the emitter and receiver.


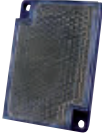


\*2. The Reflector is sold separately. Select the Reflector model most suited to the application.

\*3. L-On fixed output available for Diffuse reflective and BGS models. Please add "A" in order code (e.g. E3FC-DP11A 2M)

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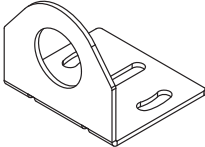

## Reflectors [Refer to Dimensions on page 12.]

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
		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	Appearance	Cable type	Model	
M12 connector types	Detergent resistant connector cable	Cable: Detergent resistant PVC Connector: SUS316L	Straight 	2 m	4-wire	Y92E-S12PVC4S2M-L
				5 m		Y92E-S12PVC4S5M-L
			Angle 	2 m		Y92E-S12PVC4A2M-L
				5 m		Y92E-S12PVC4A5M-L