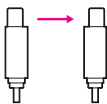

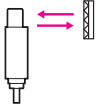

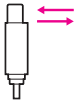

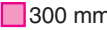





## Sensors (E3RA Plastic housing) [Refer to Dimensions on page 16.]

 Red light

Sensor type	Sensing distance	Connection method	Model	
			NPN output	PNP output
Through-beam *1. 	 15 m	pre-wired	<b>set E3RA-TN11 2M</b> Emitter E3RA-TN11-L 2M Receiver E3RA-TN11-D 2M	<b>set E3RA-TP11 2M</b> Emitter E3RA-TP11-L 2M Receiver E3RA-TP11-D 2M
		M12 connector	<b>set E3RA-TN21</b> Emitter E3RA-TN21-L Receiver E3RA-TN21-D	<b>set E3RA-TP21</b> Emitter E3RA-TP21-L Receiver E3RA-TP21-D
Retro-reflective with MSR function *2. 	 0.1 to 3 m with E39-R1S	pre-wired	<b>E3RA-RN11 2M</b>	<b>E3RA-RP11 2M</b>
		M12 connector	<b>E3RA-RN21</b>	<b>E3RA-RP21</b>
Diffuse-reflective 	 100 mm	pre-wired	<b>E3RA-DN11 2M</b>	<b>E3RA-DP11 2M</b>
		M12 connector	<b>E3RA-DN21</b>	<b>E3RA-DP21</b>
	 300 mm	pre-wired	<b>E3RA-DN12 2M</b>	<b>E3RA-DP12 2M</b>
		M12 connector	<b>E3RA-DN22</b>	<b>E3RA-DP22</b>
	 700 mm	pre-wired	<b>E3RA-DN13 2M</b>	<b>E3RA-DP13 2M</b>
		M12 connector	<b>E3RA-DN23</b>	<b>E3RA-DP23</b>

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







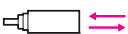



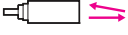


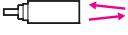


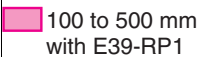

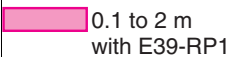
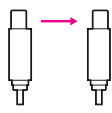

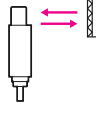

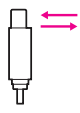



\*2. The Reflector is sold separately. Select the Reflector model most suited to the application.

# E3FA/E3RA/E3FB/E3RB



## Sensors (E3FB/E3RB Metal housing) [Refer to Dimensions on page 17.]

 Red light

Sensor type	Sensing distance	Connection method	Model	
			NPN output	PNP output
Through-beam *1. 	 20 m	pre-wired	set E3FB-TN11 2M Emitter E3FB-TN11-L 2M Receiver E3FB-TN11-D 2M	set E3FB-TP11 2M Emitter E3FB-TP11-L 2M Receiver E3FB-TP11-D 2M
		M12 connector	set E3FB-TN21 Emitter E3FB-TN21-L Receiver E3FB-TN21-D	set E3FB-TP21 Emitter E3FB-TP21-L Receiver E3FB-TP21-D
Retro-reflective with MSR function *2. 	 0.1 to 4 m with E39-R1S	pre-wired	E3FB-RN11 2M	E3FB-RP11 2M
		M12 connector	E3FB-RN21	E3FB-RP21
Coaxial Retro-reflective with MSR function *2. 	 0 to 500 mm with E39-R1S	pre-wired	E3FB-RN12 2M	E3FB-RP12 2M
		M12 connector	E3FB-RN22	E3FB-RP22
Diffuse-reflective 	 100 mm	pre-wired	E3FB-DN11 2M	E3FB-DP11 2M
		M12 connector	E3FB-DN21	E3FB-DP21
	 300 mm	pre-wired	E3FB-DN12 2M	E3FB-DP12 2M
		M12 connector	E3FB-DN22	E3FB-DP22
	 1 m	pre-wired	E3FB-DN13 2M	E3FB-DP13 2M
		M12 connector	E3FB-DN23	E3FB-DP23
BGS (background suppression) 	 100 mm	pre-wired	E3FB-LN11 2M	E3FB-LP11 2M
		M12 connector	E3FB-LN21	E3FB-LP21
	 200 mm	pre-wired	E3FB-LN12 2M	E3FB-LP12 2M
		M12 connector	E3FB-LN22	E3FB-LP22
Limited distance reflective 	 10 to 50 mm	pre-wired	E3FB-VN11 2M	E3FB-VP11 2M
		M12 connector	E3FB-VN21	E3FB-VP21
Transparent detected with P-opaqing function *2. 	 100 to 500 mm with E39-RP1	pre-wired	E3FB-BN11 2M	E3FB-BP11 2M
		M12 connector	E3FB-BN21	E3FB-BP21
Transparent detected with P-opaqing function *2. 	 0.1 to 2 m with E39-RP1	pre-wired	E3FB-BN12 2M	E3FB-BP12 2M
		M12 connector	E3FB-BN22	E3FB-BP22
Through-beam *1. 	 15 m	pre-wired	set E3RB-TN11 2M Emitter E3RB-TN11-L 2M Receiver E3RB-TN11-D 2M	set E3RB-TP11 2M Emitter E3RB-TP11-L 2M Receiver E3RB-TP11-D 2M
		M12 connector	set E3RB-TN21 Emitter E3RB-TN21-L Receiver E3RB-TN21-D	set E3RB-TP21 Emitter E3RB-TP21-L Receiver E3RB-TP21-D
Retro-reflective with MSR function *2. 	 0.1 to 3 m with E39-R1S	pre-wired	E3RB-RN11 2M	E3RB-RP11 2M
		M12 connector	E3RB-RN21	E3RB-RP21
Diffuse-reflective 	 100 mm	pre-wired	E3RB-DN11 2M	E3RB-DP11 2M
		M12 connector	E3RB-DN21	E3RB-DP21
	 300 mm	pre-wired	E3RB-DN12 2M	E3RB-DP12 2M
		M12 connector	E3RB-DN22	E3RB-DP22
	 700 mm	pre-wired	E3RB-DN13 2M	E3RB-DP13 2M
		M12 connector	E3RB-DN23	E3RB-DP23

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

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