

Photoelectric Sensors

E3F2

Threaded Cylindrical Photoelectric Sensors with Built-in Amplifier for Use as an Optical Proximity Switch

- M18 DIN-sized cylindrical housing
- Housing materials: plastic, nickel plated brass and stainless steel
- Axial and radial types (with integrated 90°-optics)
- Enclosure rating IP67
- DC switching types with connectors for easy maintenance
- Full metal plug-in type
- Sensing distance separate types: 7 m, 10 m
- Retroreflective polarizing types: 2 m, 4 m
- Background suppression type: 10 cm
- Long detection distance (0.3 m, 1 m) with sensitivity adjuster for diffuse type
- Wide-beam characteristics (10 cm) for diffuse type
- Wide operating voltage range (10 to 30 VDC or 24 to 240 VAC)
- Short-circuit and reverse connection protection (DC switching type)
- UL and CSA approved (AC switching types)
- UL listed (DC switching types)

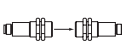


Ordering Information

■ DC-Switching Models

Housing Material: Plastic

Note: Shaded models are normally stocked.

Sensing method			Appearance	Connection method	Sensing distance	Model		
						PNP output	NPN output	
Through-beam	Multi purpose		 axial	pre-wired	7 m	E3F2-7B4	E3F2-7C4	
				M12 connector		E3F2-7B4-P1	E3F2-7C4-P1	
	- precision detection ^(*) - test input			pre-wired	10 m	E3F2-10B4	E3F2-10C4	
				M12 connector		E3F2-10B4-P1	E3F2-10C4-P1	
Retro-reflective (incl. reflector E39-R1 or E39-R1S)	Non-polarizing (without MSR function)		 axial	pre-wired	0.1 - 2 m ^{(*)2}	E3F2-R2B4	E3F2-R2C4	
				M12 connector		E3F2-R2B4-P1	E3F2-R2C4-P1	
	Polarizing (with MSR function)	Fixed sensitivity		 axial	pre-wired	0.1 - 4 m ^{(*)3}	E3F2-R4B4F	E3F2-R4C4F
		Adjustable sensitivity			M12 connector		E3F2-R4B4F-P1	E3F2-R4C4F-P1
			pre-wired		E3F2-R4B4		E3F2-R4C4	
			M12 connector		E3F2-R4B4-P1		E3F2-R4C4-P1	
	Polarizing (with MSR function)		 radial	pre-wired	0.1 - 2 m ^{(*)2}	E3F2-R2RB41	E3F2-R2RC41	
				M12 connector		E3F2-R2RB41-P1	E3F2-R2RC41-P1	
	Diffuse reflective	Fixed sensitivity	 axial	pre-wired	0.1 m	E3F2-DS10B4-N	E3F2-DS10C4-N	
		Wide-beam characteristics		M12 connector		E3F2-DS10B4-P1	E3F2-DS10C4-P1	
Adjustable sensitivity		pre-wired		0.3 m	E3F2-DS30B4	E3F2-DS30C4		
		M12 connector			E3F2-DS30B4-P1	E3F2-DS30C4-P1		
				pre-wired	1 m	E3F2-D1B4	E3F2-D1C4	
				M12 connector		E3F2-D1B4-P1	E3F2-D1C4-P1	
Adjustable sensitivity		 radial	pre-wired	0.3 m	E3F2-DS30B41	E3F2-DS30C41		
			M12 connector		E3F2-DS30B41-P1	E3F2-DS30C41-P1		
Background suppression		Fixed sensing distance	 axial	pre-wired	10 cm	E3F2-LS10B4	E3F2-LS10C4	
	M12 connector			E3F2-LS10B4-P1		E3F2-LS10C4-P1		

*1) with slit E39-ES18

*2) with reflector E39-R1

*3) with reflector E39-R1S

Note: Standard cable length is 2 m. Models provided with a 5 m long cable are available. When ordering, specify the cable length by adding the length of the cable (e.g. E3F2-R2RB4 2M or E3F2-R2RB4 5M). For other cable length please contact your OMRON sales representative.