

Miniature photoelectric sensors in cylindrical M8 and M12 housing

E3H2

- M8 or M12 sized cylindrical housings when mounting space is crucial
- Retro-reflective models with two teaching modes for standard and semi-transparent objects
- pre-wired and connector models



Ordering Information

M12 cylindrical housing

Sensor type	Sensing distance	Operation mode	Connection method				Order code		
							NPN output	PNP output	
Through-beam 	4 m (adjustable)	light on / dark on selectable	—	—	2 m	—	E3H2-T4C4M 2M	E3H2-T4B4M 2M	
			—	■	—	—	E3H2-T4C4M-M1	E3H2-T4B4M-M1	
Retro-reflective with M.S.R. 	2 m (teachable *1)		—	—	2 m	—	E3H2-R2C4M 2M*2	E3H2-R2B4M 2M*2	
			—	■	—	—	E3H2-R2C4M-M1*2	E3H2-R2B4M-M1*2	
Diffuse-reflec-tive 	300 mm (teachable)		—	—	2 m	—	E3H2-DS30C4M 2M	E3H2-DS30B4M 2M	
			—	■	—	—	E3H2-DS30C4M-M1	E3H2-DS30B4M-M1	
	100 mm (fixed)		—	—	2 m	—	E3H2-DS10C4M 2M	E3H2-DS10B4M 2M	
			—	■	—	—	E3H2-DS10C4M-M1	E3H2-DS10B4M-M1	

*1. Models without teach-button are available. Contact your OMRON representative.

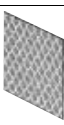
*2. Without reflector; order reflector separately

M8 cylindrical housing

Sensor type	Sensing distance	Operation mode	Connection method				Order code	
							NPN output	PNP output
Through-beam 	2 m	dark on	—	—	2 m	—	E3H2-T2C2S 2M	E3H2-T2B2S 2M
			■	—	—	—	E3H2-T2C2S-M5	E3H2-T2B2S-M5
		light on	—	—	2 m	—	E3H2-T2C1S 2M	E3H2-T2B1S 2M
			■	—	—	—	E3H2-T2C1S-M5	E3H2-T2B1S-M5

Accessories

Reflectors

Shape	Type	Material	Features	Size in mm	Applicable Sensor	Order code
	General purpose reflectors	- ABS base - Acrylic surface	Surface screw mounting (diagonal holes)	60x40x7.5	- Retro-reflective photo-electric sensors – non polarizing - Retro-reflective photo-electric sensors – polarizing (MSR)	E39-R1S
	Small size		Surface screw mounting	23x13.7x4.9		E39-R4
	Simple mounting		Round shape with centered mounting hole for simple screw mounting	Diameter: 84 Depth: 7.4		E39-R7
	General purpose tape reflectors	- Acrylic	Self adhesive Pre cut	40x35x0.6		E39-RS2

Sensor I/O connectors

Size	Shape	Type	Features	Material		Order code	
				Nut	Cable		
M8		General purpose (screw)	3 pin (LED optionally)	Brass (CuZn)	PVC 2 m PUR 2 m	XS3F-M08PVC3S2M XS3F-M08PUR3S2M	XS3F-M08PVC3A2M XS3F-M08PUR3A2M
M12		General purpose (screw)	3 wire (LED optionally)	Brass (CuZn)	PVC 2 m PUR 2 m	XS2F-M12PVC3S2M XS2F-M12PUR3S2M	XS2F-M12PVC3A2M XS2F-M12PUR3A2M
			4 wire		PVC 2 m PUR 2 m	XS2F-M12PVC4S2M XS2F-M12PUR4S2M	XS2F-M12PVC4A2M XS2F-M12PUR4A2M

Note: For the complete list of sensor I/O connectors refer to E26E Accessories datasheet.