

E3S-DB

Outstanding detection performance for all kinds of transparent objects

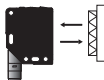




- Most reliable detection of all transparent objects such as PET bottles, glass bottles or transparent trays
- SmartTeach for fast set up and optimum threshold setting
- Sensing distance up to 4.5 m
- Narrow beam types with 2 mm spot detecting smallest gaps
- Proven for environments in Food & Beverage industry



Ordering Information

Sensors

 Red light






Sensor type	Sensitivity adjustment	Connection method	Sensing distance, typ.	Model	
				NPN output	PNP output
Retro-reflective with MSR function 	SmartTeach	Pre-wired (2 m)	 0 to 4.5 m with E39-R8	E3S-DBN11 2M	E3S-DBP11 2M
		Connector (M12, 4 pins)		E3S-DBN21	E3S-DBP21
		Pigtail Connector* ¹ (M12, 4 pins)		E3S-DBN31	E3S-DBP31
		Pre-wired (2 m)	Narrow beam  0 to 0.7 m with E39-R21	E3S-DBN12 2M	E3S-DBP12 2M
		Connector (M12, 4 pins)		E3S-DBN22	E3S-DBP22
		Pigtail Connector* ¹ (M12, 4 pins)		E3S-DBN32	E3S-DBP32
	Trimmer (11 turns)	Pre-wired (2 m)	 0 to 4.5 m with E39-R8	E3S-DBN11T 2M	E3S-DBP11T 2M
		Connector (M12, 4 pins)		E3S-DBN21T	E3S-DBP21T
		Pigtail Connector* ¹ (M12, 4 pins)		E3S-DBN31T	E3S-DBP31T
		Pre-wired (2 m)	Narrow beam  0 to 0.7 m with E39-R21	E3S-DBN12T 2M	E3S-DBP12T 2M
		Connector (M12, 4 pins)		E3S-DBN22T	E3S-DBP22T
		Pigtail Connector* ¹ (M12, 4 pins)		E3S-DBN32T	E3S-DBP32T

*¹ OMRON SmartClick connector for fast and save connection.

E3S-DB

Reflectors [Refer to Dimensions on page 9.]



Reflectors required for Retro-reflective Sensors: A Reflector is not provided with the Sensor. Be sure to order a Reflector separately.

Sensor	Sensing distance, typ.	Appearance	Dimensions [mm]	Remarks	Model
E3S-DB__1(T)	0 to 4.5 m		100 × 100		E39-R8
	0 to 3.5 m		60 × 40		E39-R1S
	0 to 3 m		60 × 40	Special polarizing filter for enhanced PET detection	E39-RP1
E3S-DB__2(T)	0 to 700 mm		35 × 30	For narrow gap detection	E39-R21
	0 to 700mm		60 × 20		E39-R52

Note: For more reflectors please check OMRON catalogue or contact your OMRON representative.

Mounting brackets [Refer to Dimensions on page 9.]

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

Appearance	Material	Remarks	Model
	SUS304	A Mounting bracket is not provided with the Sensor.	E39-L192
	SUS304	A Mounting bracket is not provided with the Sensor.	E39-L193

Sensor I/O connectors

Size	Specifications	Appearance	Cable type	Model
M12 (4 pins)	Standard PVC	Straight	2 m	XS2F-M12PVC4S2M-EU
			5 m	XS2F-M12PVC4S5M-EU
		Angled	2 m	XS2F-M12PVC4A2M-EU
			5 m	XS2F-M12PVC4A5M-EU
	Smartclick PVC	Straight	2 m	XS5F-D421-D80-F
			5 m	XS5F-D421-G80-F