
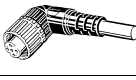
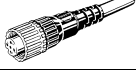



Plugs (for Sensors with Connector Terminals)

Cord	Appearance		Cord length	Model
Standard	Straight (3 conductor)		2 m	XS2F-D421-DC0-A
			5 m	XS2F-D421-GC0-A
	L-shape (3 conductor)		2 m	XS2F-D422-DC0-A
			5 m	XS2F-D422-GC0-A
Robot (vibration-proof)	Straight (4 conductor)		2 m	XS2F-D421-D80-R
			5 m	XS2F-D421-G80-R
	L-shape (4 conductor)		2 m	XS2F-D422-D80-R
			5 m	XS2F-D422-G80-R

Reflectors

Name	Model	Remarks
Mini-reflector	E39-R4	One
Small Reflector	E39-R3	One
Reflector Tape	E39-RS1, RS2, RS3	One (sealed type)

Specifications

Without self-diagnostic functions

Sensing method		Through-beam, Retro-reflective (polarized)	Diffuse reflective: 10 cm	Diffuse reflective: 20 cm	Diffuse reflective: 70 cm
Model	NPN output	E3S-AT11, -AR11 E3S-AT16, -AR16 E3S-AT61, -AR61 E3S-AT66, -AR66	E3S-AD13 E3S-AD63 E3S-AD18 E3S-AD68	E3S-AD11 E3S-AD16 E3S-AD61 E3S-AD66	E3S-AD12 E3S-AD17 E3S-AD62 E3S-AD67
	PNP output	E3S-AT31, -AR31 E3S-AT36, -AR36 E3S-AT81, -AR81 E3S-AT86, -AR86	E3S-AD33 E3S-AD83 E3S-AD38 E3S-AD88	E3S-AD31 E3S-AD36 E3S-AD81 E3S-AD86	E3S-AD32 E3S-AD37 E3S-AD82 E3S-AD87
Wavelength of LED light source		700 nm (red)	880 nm (infrared)	700 nm (red)	880 nm (infrared)
Sensitivity adjustment		Two-turn (endless) sensitivity adjustor with indicator			
Self-diagnostic functions		---			
Timer		---			
Turbo function		---			
Method of connection		Prewired / connector			
Weight		Prewired type: 60 g; connector type: 11 g			
Operation mode		Dark-ON or Light-ON (switchable)			
Output		Open collector current output (NPN or PNP)			
Circuit protection		Load short-circuit protection, reverse connection protection, mutual interference prevention (except for through-beam models)			
Indicators		Light indicator (red) and stability indicator (green); emittion indicator (red) for the emitter of through-beam models			
Materials		Case: Polybutylene terephthalate Lens: Denaturated polyallalate Mounting bracket: Stainless steel (SUS304)			
Attachments		Mounting bracket, sensitivity adjustor knob, screws, sensitivity adjustor cover, close-mounting plate (only for Sensors with connector terminals) and reflector (E39-R1: only for retroreflective Sensors)			

With self-diagnostic functions

Sensing method		Through-beam, Retroreflective (polarized)	Diffuse reflective: 10 cm	Diffuse reflective: 20 cm	Diffuse reflective: 70 cm
Model	NPN output	E3S-AT21 E3S-AR21 E3S-AT71 E3S-AR71	E3S-AD23 E3S-AD73	E3S-AD21 E3S-AD71	E3S-AD22 E3S-AD72
	PNP output	E3S-AT41 E3S-AR41 E3S-AT91 E3S-AR91	E3S-AD43 E3S-AD93	E3S-AD41 E3S-AD91	E3S-AD42 E3S-AD92
Wavelength of LED light source		700 nm (red)	880 nm (infrared)	700 nm (red)	880 nm (infrared)
Sensitivity adjustment		Two-turn (endless) sensitivity adjustor with indicator			
Self-diagnostic functions		Self-diagnostic output, External diagnostic input	Self-diagnostic output		
Timer		0 to 100 ms OFF-delay variable adjustor			
Turbo function		Yes (with turbo switch)			---
Method of connection		Prewired			
Weight		60 g			
Operation mode		Dark-ON or Light-ON (switchable)			
Output		Open collector current output (NPN or PNP)			
Circuit protection		Load short-circuit protection, reverse connection protection, mutual interference prevention (except for through-beam models) functions			
Indicators		Light indicator (red) and stability indicator (green); emission indicator (red) for the emitter of the through-beam model			
Materials		Case:	Polybutylene terephthalate		
		Lens:	Denaturated polyallalate		
		Mounting bracket:	Stainless steel (SUS304)		
Attachments		Mounting bracket, sensitivity adjustor knob, screws, sensitivity adjustor cover, close-mounting plate (only for Sensors with connector terminals) and reflector (E39-R1: only for retroreflective Sensors)			