

SSP-T200 series

Light curtain sensors for picking



- Picking sensor for checking and instruction of removing parts from bin
- Thinness of 13 mm achieved with rigid metal case
- Large work operation indicator (job light)
- Faulty work operation indicator (fault light) is provided
- 4 types are available for different sizes of parts bins
- Requiring no synchronization line

Asynchronous method employed, eliminating need for synchronization line

Type

Detection method	Detecting distance	Detecting width	Set model No.	No. of light axes	Light axis interval	Detecting object	Connection		
 Through-beam type	2m max.	100mm	SSP-T205	5	25mm	Opaque object of ϕ 35mm min.	Permanently attached cord		
		225mm	SSP-T210	10					
		300mm	SSP-T213	13					
		375mm	SSP-T216	16					
				100mm			SSP-T205-J	5	Permanently attached cord with connector
				225mm			SSP-T210-J	10	
				300mm			SSP-T213-J	13	
				375mm			SSP-T216-J	16	

Mounting brackets are separately available.

Special mounting brackets (optional)

Model	Model	Remarks
SSP-B1	Flat plate type	Two brackets in one set
SSP-B2	L-shaped plate type	(with M4 x 12 sems screws with washers and nuts)

- Two sets are required for transmitter and receiver.

Cord with connector (optional)

Model	Shape, etc.
FAC-D4R2	M12 straight 4-core cord / 2 m (common to transmitter and receiver)
FAC-D4R5	M12 straight 4-core cord / 5 m (common to transmitter and receiver)

SSP-T200

Rating/Performance/Specification

Model	Permanently attached cord type	SSP-T205	SSP-T210	SSP-T213	SSP-T216	
	In-line connector type	SSP-T205-J	SSP-T210-J	SSP-T213-J	SSP-T216-J	
Rating/performance	Detection method	Through-beam type				
	Detecting distance	2m				
	Detection object	Opaque object of ϕ 35mm min.				
	No. of light axes	5	10	13	16	
	Detecting width	100mm	225mm	300mm	375mm	
	Light axis interval	25mm				
	Power supply	12-24V DC \pm 10% / Ripple 10% max.				
	Current consumption	130mA max.	140mA max.	150mA max.	155mA max.	
	Output mode	Control output	Selectable between NPN and PNP with switch			
		Rating	Sink current 50mA (30VDC) max. / Residual voltage: 2V max.			
		PNP output	Source current: 50mA (30VDC) max. / Residual voltage: 2V max.			
	Operation mode	Light-ON/Dark-On selectable (with switch)				
	Frequency switching feature	Provided (for up to 2 units)				
	Response time	Normal	Light reception: 35 ms max.	Light reception: 68 ms max.	Light reception: 70 ms max.	Light reception: 94 ms max.
Light blocking: 25 ms max.			Light blocking: 42 ms max.	Light blocking: 42 ms max.	Light blocking: 58 ms max.	
With frequency switching feature enabled		Light reception: 45 ms max.	Light reception: 74 ms max.	Light reception: 88 ms max.	Light reception: 116 ms max.	
		Light blocking: 28 ms max.	Light blocking: 52 ms max.	Light blocking: 54 ms max.	Light blocking: 72 ms max.	
Job light input	Contact or non-contact input					
Specification	Light source (wavelength)	Infrared LED (wavelength;880nm)				
	Indicator	Transmitter: Power indicator (green LED) / Job light (green LED)				
		Receiver :Light reception indicator (green / orange LED) / Light blocking indicator (orange LED) Job light (green LED) / Fault light (red LED)				
	Job light Fault light	Continuous/flashing illumination selectable with switch Flashing speed: FAST/SLOW selectable with switch				
	Short circuit protection	Provided				
	Automatic sensitivity compensation	Provided				
	Material	Case body: Aluminum / Caps at ends (mounting legs): glass fiber filled PBT Lens: polycarbonate / Switch cover: polyester elastomer				
	Connection	Permanently attached cord	(Outer dimension: dia.4.1) Cord length: 2m Transmitter: with three 0.2mm ² cores, gray (transmitter) /with four 0.2mm ² cores, black (receiver) covering			
		Permanently attached cord with connector	With M12 connector, 2m long Cord color: transmitter: Gray / Receiver: Black			
	Mass	Permanently attached cord	Transmitter: about 105g Receiver: about 110g	Transmitter: about 160g Receiver: about 170g	Transmitter: about 195g Receiver: about 205g	Transmitter: about 225g Receiver: about 240g
		Permanently attached cord with connector	Transmitter: about 115g Receiver: about 120g	Transmitter: about 170g Receiver: about 180g	Transmitter: about 205g Receiver: about 215g	Transmitter: about 235g Receiver: about 250g
Accessory	Screwdriver for switch operation (Note) Mounting brackets are separately available.					

Environmental Specification

Environmental specification	Ambient light	10,000lx max.
	Ambient temperature	-10 - +55°C (non-freezing)
	Ambient humidity	35-85%RH (non-condensing)
	Vibration	10 - 55Hz / 1.5mm amplitude / 2 hours each in 3 directions
	Shock	500m/s ² / 2 times each in 3 directions
	Protective structure	IP62
	Dielectric withstanding	1,000VAC 50/60Hz for 1 minute
	Insulation resistance	500VDC, 20M Ω or higher.

