

SS80 series

Light Curtain Sensors



- Light axis interval 80mm
- Anti Interference feature for adjacent installation (M/S switching)
- Longest -in-class detecting distance of 15 m
- Large indicators

Type

Series	Detection method	Detecting distance	Light axis interval	No. of light axes	Detecting width	Set model No.	Operation mode	Detecting object
<div style="text-align: center;"> ↑ SS80 </div>	Through-beam type	 3~15m	80mm	2	80mm	SS80-T2	<ul style="list-style-type: none"> • A (activated when beams of all axes are received)/O (activated when beam of any axis is received) switching • M/S switching M: master S: slave (For prevention of interference between adjacently installed units) 	Opaque object of $\phi 92$ mm min
				4	240mm	SS80-T4		
				6	400mm	SS80-T6		
				8	560mm	SS80-T8		
				10	720mm	SS80-T10		
				12	880mm	SS80-T12		
				14	1040mm	SS80-T14		
				16	1200mm	SS80-T16		
				18	1360mm	SS80-T18		
				20	1520mm	SS80-T20		
				22	1680mm	SS80-T22		
				24	1840mm	SS80-T24		

Optional Parts

Set model No.	Discrete model No.	Length	Description
SS-H5 (Accessory)	SS-H5L (for transmitter)	5m	Cord with connector (6.8mm outer diameter, four 0.5mm ² cores, gray (transmitter) or black (receiver) covering)
	SS-H5R (for receiver)		
SS-H10	SS-H10L (for transmitter)	10m	
	SS-H10R (for receiver)		

Rating/Performance/Specification

Series		SS80 series
Rating/performance	Detection method	Through-beam type
	Detecting distance	3-15m max.
	Detecting object	Opaque object of ϕ 92 min.
	Light axis interval	80mm
	Power supply	12-24V DC \pm 10%
	Output mode	NPN open collector output Rating: sink current 100mA (30VDC) max. (PNP output type (model No. ending with "-PN") is separately available)
	Operation mode	A/O mode switching A mode: activated when beams of all axes are received (deactivated when beam of any axis is blocked) O mode: activated when beam of any axis is received (deactivated when beams of all axes are blocked)
	Response time	15ms max.
	Light source(wavelength)	Infrared LED (880nm)
Specification	Light-sensitive element	Photo transistor
	Indicator	Transmitter: Power indicator (green LED) / M/S indicator (red LED) / Light axis alignment indicator (green LED) Receiver: Operation indicator (red LED) / Stable light reception indicator (green LED) / Light axis alignment indicator (green LED)
	Switch (SW)	Transmitter: M/S mode switch provided Receiver: A/O mode switch provided
	Auxiliary functions	Anti Interference feature for adjacent installation, output short circuit protection
	Material	Case: aluminum / Front cover/lens: Acrylic
	Connection	Permanently attached cord with connector (cord length: 0.2m) / Cord with connector Cord: with four 0.5mm ² cores (Outer dimension: dia.6.8)
	Accessory	Cord with connector (cord length: 5m), mounting brackets, operation manual
	Notes	(PNP output type is separately available.)

Environmental Specification

Environmental specification	Ambient light	9,000lx max.
	Ambient temperature	-10 - +55°C (non-freezing)
	Ambient humidity	35-85%RH (non-condensing)
	Protective structure	IP66
	Vibration	10 - 55Hz / 1.5mm amplitude / 2 hours each in 3 directions

Indicator Operation

	Name	Color	Description
Transmitter	Power indicator	Green	Illuminated when power is supplied
	M/S indicator	Red	Illuminated to indicate M mode Dis-illuminated to indicate S mode
	Light axis alignment indicator	Green	Illuminated when power is supplied
Receiver	Stable light reception indicator	Green	Illuminated when the receive grid density exceeds 120% or more of the detection eye
	Operation indicator	Red	Illuminated when output transistor is activated A: illuminated when light beams of all axes are received O: illuminated when light beam of any axis is received
	Light axis alignment indicator	Green	Illuminated when power is supplied

• Specification by model

Set model No.	No. of light axes	Detecting width	Current consumption (mA)	Mass (about in g)	
				Transmitter	Receiver
SS80-T2	2	80	50	250g max.	
SS80-T4	4	240	56	350g max.	
SS80-T6	6	400	63	450g max.	
SS80-T8	8	560	69	550g max.	
SS80-T10	10	720	75	650g max.	
SS80-T12	12	880	82	750g max.	
SS80-T14	14	1040	88	850g max.	
SS80-T16	16	1200	95	950g max.	
SS80-T18	18	1360	101	1050g max.	
SS80-T20	20	1520	107	1150g max.	
SS80-T22	22	1680	114	1250g max.	
SS80-T24	24	1840	120	1350g max.	

