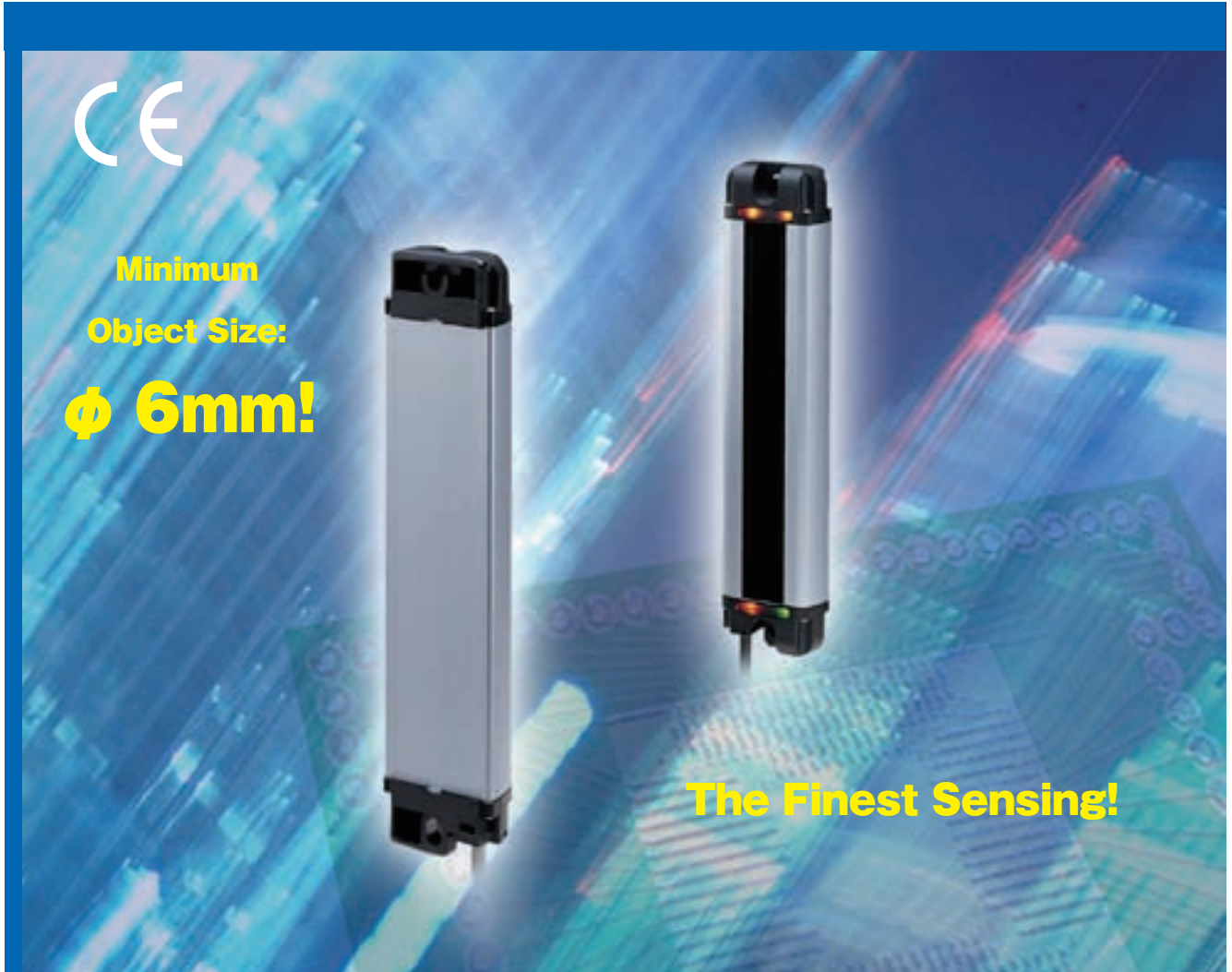


LIGHT CURTAIN SENSOR SSC-T800 series

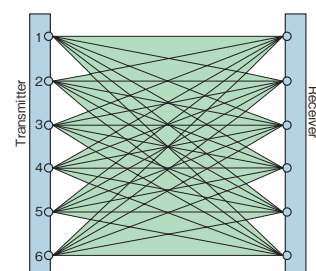


■ Features

- **Sequential Array Scanning**
Creates a fine net and detects thin pipes, tapes or name cards.
- **Easy installation**
Synchronizing wire is not necessary. No need to wire between the transmitter and the receiver.
- **Useful variation of detection width and beam interval**
9 models with three detection widths (50mm, 100mm and 150mm) and 5 beam interval patterns are available.
- **Slim and sturdy aluminum housing**
- **IP67 Protection**

Sequential Array Scanning

SSC-T800 makes a sequential scan of a two dimensional array formed by each transmitter and the whole set of corresponding receivers. This method of scanning creates a high-density detection net between the transmitter and the receiver. Thin pipe, tape or name cards that pass through conventional light curtains can be reliably detected.



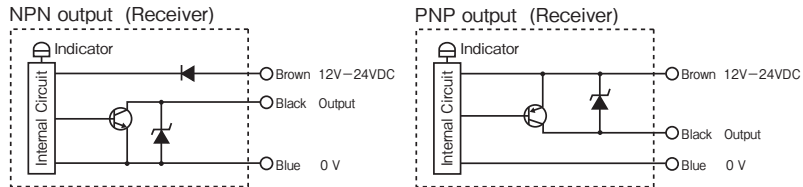
Specifications

Set Models	NPNtype	SSC-T801	SSC-T802	SSC-T804	SSC-T805	SSC-T850	SSC-T810	SSC-T815	SSC-T830	SSC-T835	
	PNPtype	SSC-T801PN	SSC-T802PN	SSC-T804PN	SSC-T805PN	SSC-T850PN	SSC-T810PN	SSC-T815PN	SSC-T830PN	SSC-T835PN	
Detection mode		Through beam									
Range		100 - 500mm	0.4 - 1.2m	0.5 - 2m	100 - 500mm	150 - 800mm		0.5 - 2.5m			
Detection object(min)		ø6mm	ø8mm	ø15mm	ø12.5mm	ø17mm	ø11mm	ø20mm	ø13mm	ø22mm	
No. of optical axis		10		5		10	10	6	10	6	
Detecting width		50mm			150mm		100mm				
Optical axis interval		5.55mm		12.5mm		16.6mm		11mm	20mm	11mm	20mm
Power supply		12to24VDC ± 10%, Ripple 10% Max.									
Current consumption	Transmitter	50mA max.		50mA max.		80mA max.		80mA max.	80mA max.	80mA max.	
	Receiver	100mA max.*		65mA max.*		110mA max.*		70mA max.*	110mA max.*	70mA max.*	
Output mode(NPN)		NPN open collector output									
Rating		Sink current 100mA, 30VDC(Max.) Short circuit protection built-in									
Output mode(PNP)		PNP open collector output									
Rating		Source current 100mA, 30VDC(Max.) Short circuit protection built-in									
Operation mode		Light ON*1 Activated when light beams of all axes are received(deactivated when one or more light beam is blocked)									
Response time		Dark-on: 5ms Light-on: 8ms		Dark-on: 3ms Light-on: 4ms				Dark-on: 5ms Light-on: 8ms			
Light source		Infrared LED (870nm)									
Indicator		Transmitter: Power (Green LED), Receiver: Power (Green LED) / Operation (Orange LED)									
Short circuit protection		Provided									
Material		Case body : Aluminum / End cap : glass fiber filled PBT									
Connection cable		3m cable (φ 4mm)									
Weight (transmitter/receiver each)		Approx. 130g			Approx. 190g		Approx. 130g				
Accessory		Operation manual									
Notes		* The receiver current consumption shown is for 12 VDC. When the voltage is 24 VDC, the consumption is reduced to about 60%. *1 Dark-ON types, are also available.									

Environmental Characteristics

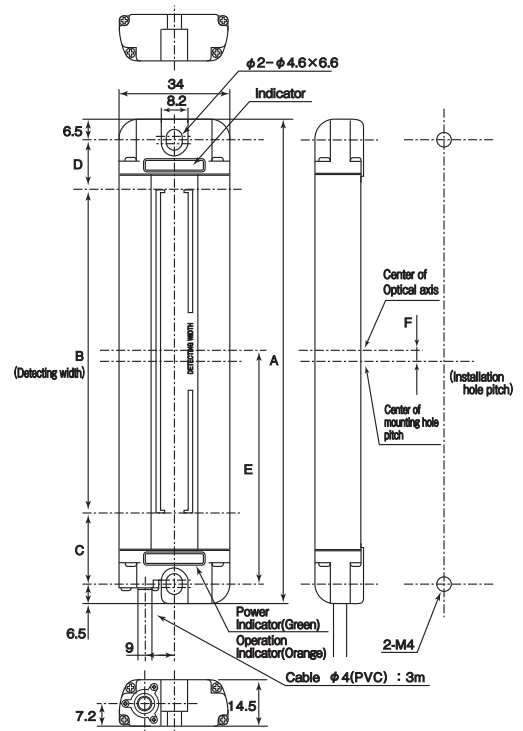
Ambient light	5,000 lx max.
Temperature range	-10 to +55 °C (non-freezing)
Humidity	35 to 85%RH (non-condensing)
Protection rating	IP67
Vibration resistance	10 to 55Hz, 1.5mm double amplitude, 2hrs in X, Y and Z directions
Shock resistance	500m/s ² 3 times in X,Y and Z directions
Dielectric strength	500VAC for 1 minute
Insulation resistance	500VDC, 20M Ω or higher.

Input/Output circuit and Connection



Models	Mark	A	B	C	D	E	F
SSC-T801	100	50	22.5	14.5	47.5	4	
SSC-T802							
SSC-T804							
SSC-T805	200	150	22	15	97	3.5	
SSC-T810							
SSC-T815							
SSC-T830	150	100	22	15	72	3.5	
SSC-T835							

Dimensions (unit : mm)



- This sensor is designed to detect a specific object. It is not provided with control functions for prevention of injuries or accidents in itself.
- Takex will not held responsible for any damage or loss incurred due to accidents, faulty installation, abuse, misuse, improper maintenance or acts of God including lightning surge.
- Specifications and dimensions may be subject to change without notice.



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