SS-CH series

Separate light axis output light curtain sensors

- Slim light curtain sensor SS10/20/40 with separate outputs for individual light axes
- Ideal for height/size checking of passing objects
  - SS10-CH: 17 mm
  - SS20-CH: 32 mm
  - SS40-CH: 52 mm

  (Rough guidelines for detectable size difference)

Type

Sensor

Series	Detection method	Detecting distance	Light axis interval	No. of light axes	Detecting width	Transmitter/receiver set model No.	Output mode (response time)	Detecting object
SS10-CH	Through-beam type	2m	10mm	16	150mm	**SS10-T16-CH**	Serial output (15 ms max.)	Opaque object of ϕ17 mm min.
				24	230mm	**SS10-T24-CH**		
				32	310mm	**SS10-T32-CH**		
				48	470mm	**SS10-T48-CH**		
				64	630mm	**SS10-T64-CH**		
				80	790mm	**SS10-T80-CH**		
				96	950mm	**SS10-T96-CH**		
SS20-CH		7m	20mm	8	140mm	**SS20-T8-CH**	Serial output (8 ms max.)	Opaque object of ϕ32 mm min.
				12	220mm	**SS20-T12-CH**		
				16	300mm	**SS20-T16-CH**		
				20	380mm	**SS20-T20-CH**		
				24	460mm	**SS20-T24-CH**		
				32	620mm	**SS20-T32-CH**		
				40	780mm	**SS20-T40-CH**		
				48	940mm	**SS20-T48-CH**		
SS40-CH			40mm	4	120mm	**SS40-T4-CH**	Serial output (3 ms max.)	Opaque object of ϕ52 mm min.
				6	200mm	**SS40-T6-CH**		
				8	280mm	**SS40-T8-CH**		
				10	360mm	**SS40-T10-CH**		
				12	440mm	**SS40-T12-CH**		
				16	600mm	**SS40-T16-CH**		
				20	760mm	**SS40-T20-CH**		
				24	920mm	**SS40-T24-CH**		

*For prices of the transmitter and receiver for separate purchase, see the Price List at the end of this book.

Conversion board

Shape	Model	Output mode
Board-shaped	**SS-96B**	8-bit open collector

Contact Takex for details of this series.

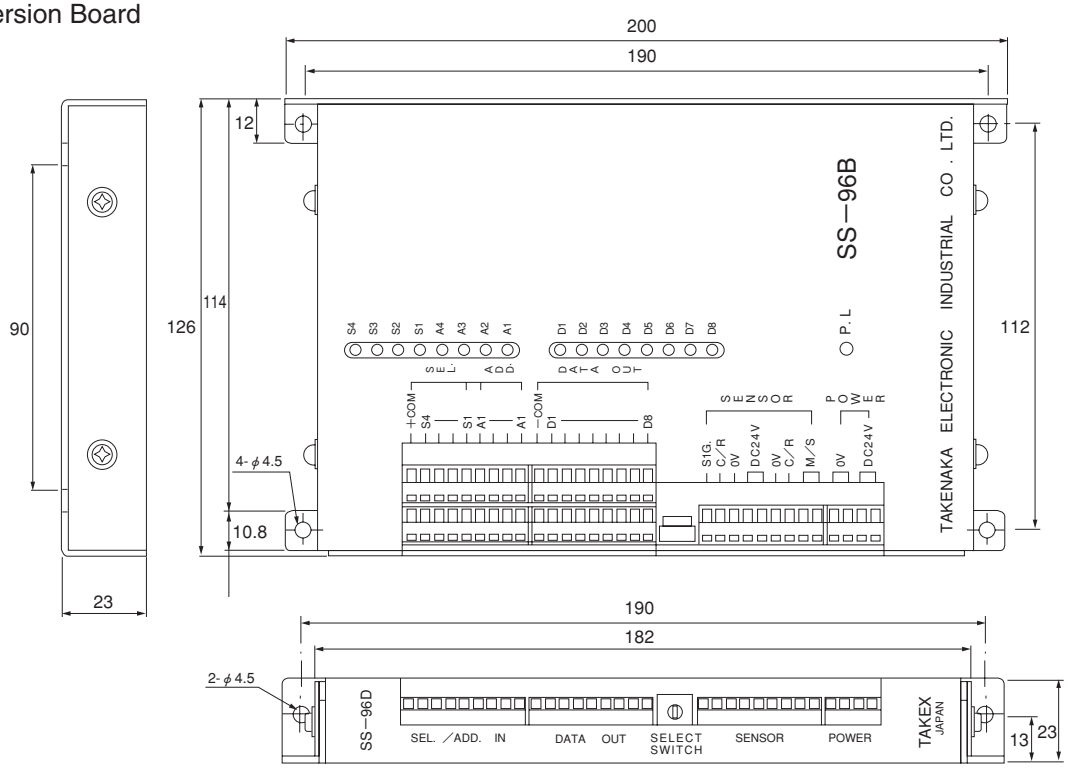
Conversion Board Rating/Performance/Specification

	Model	SS-96B
Rating/performance/ Specification	Power supply	12-24V DC ±10% / Ripple 10% or less
	Current consumption	100mA max. (sensor excluded)
	Output mode	(Photocoupler insulation, open collector output (8 bits)
	Output rating	Sink current 10 mA / Voltage: 30 V / Residual voltage: 2 V max. / Negative common (0 V) input
	Input mode	Photocoupler insulation, Data address input (4 bits) Photocoupler insulation, Board select address input (4 bits)
	Input rating	Open collector positive common (24 VDC) input
	Address input cycle	Data address 500 μs min.
	Indicator	Power supply indicator: 2 green LEDs Data output indicator: 8 red LEDs Data address indicator: 4 green LEDs Board select address input indicator: 4 green LEDs
	Connection	Terminal block M3
	Applicable sensor	SS10-T**-CH series (T16 – T96) SS20-T**-CH series (T8 – T48) SS40-T**-CH series (T4 – T24)
	Applicable PLC	Positive common (24 VDC)

Environmen	Ambient temperature	–10 - +55°C (non-freezing)
	Ambient humidity	35-85%RH (non-condensing)
	Vibration	10-55 Hz / 1.5 mm amplitude / 2 hours each in 3 directions
	Protective structure	IP40

Dimensions (in mm)

Conversion Board



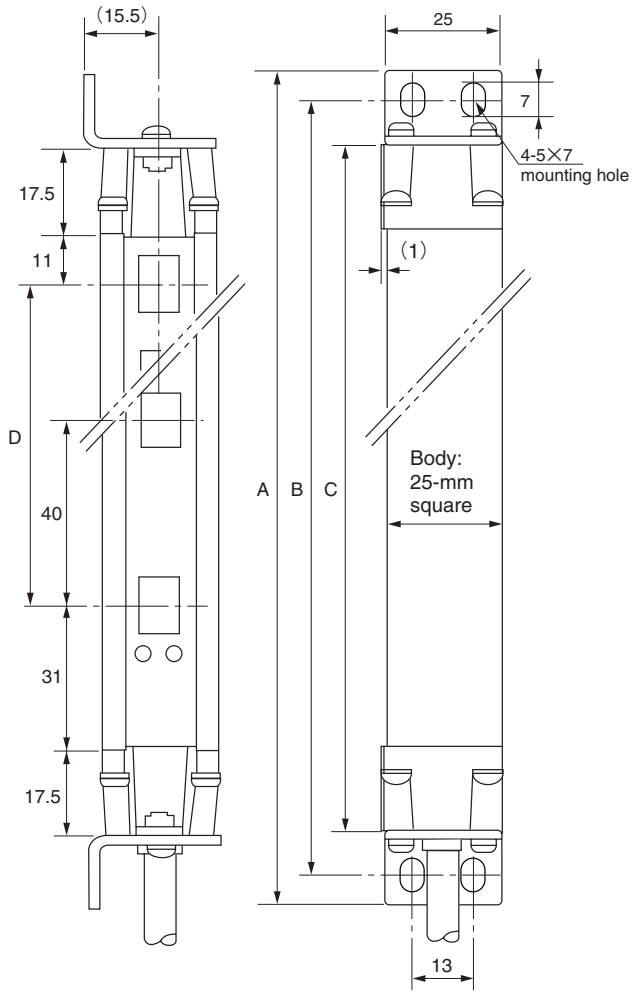
For sensor dimensions see:
- SS10-CH P.294 (equivalent to SS10)
- SS20-CH P.294 (equivalent to SS20)
- SS40-CH See the next page.

SS-CH

Dimensions (in mm) (Only receiver is shown in the figure as an example. With transmitter, orientation of mounting bracket is reversed.)

SS40-CH series

CAD



● Dimensions of portions (in mm)

Model	A	B	C	D
SS40-T4-CH	227	215	197	120
SS40-T6-CH	307	295	277	200
SS40-T8-CH	387	375	357	280
SS40-T10-CH	467	455	437	360
SS40-T12-CH	547	535	517	440
SS40-T16-CH	707	695	677	600
SS40-T20-CH	867	855	837	760
SS40-T24-CH	1027	1015	997	920