HS - 101S

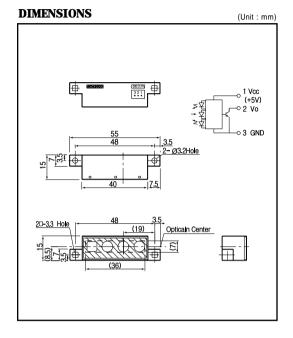
HS - 101S are reflection sensors which aim at the human body detection such as ATM. HS - 101S has high resistance to ambient light by using modulated light. HS - 101S are installed with a screw and also can be connected very easily with 3 pin connector.

FEATURES

- Compact
- 3pin connector type
- With the reflection prevention seal

APPLICATIONS

• Human body detection for ATM etc.



MAXIMUM RATINGS

(Ta=25)

Item	Symbol	Rating	Unit
Supply voltage	Vcc	5.5	V
Output voltage 1	Vo	28	V
Low level output current '2	OL	30	mA
Operating temp. 3.4	Topr.	- 10 + 60	
Storage temp. 3.4	Tstg.	- 20 + 70	

^{*1.} C - E voltage for output transistor

ELECTRO-OPTICAL CHARACTERISTICS

(Ta=25)

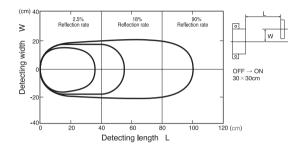
Item	Symbol	Conditions	Min.	Тур.	Max.	Unit.
Supply voltage	Vcc		4.75	5	5.25	V
Current consumption	[cc			6.5	12	mA
Low level output voltage	Vol	detecting Vo=5V, R=1k			0.2	V
High level output voltage	Vон	non detecting V₀=5V,R₄=1k	4.5			V
Detecting distance	LHL	reflection rate 90%, OFF ON 30cm x30cm	50	100	150	cm
Hysteresis	Evlh/Evhl	reflection rate 90%, 30cm ×30cm		85		%
Response time	t	reflection rate 90%, L=50cm, 30cm x30cm		100	200	ms
Sun light	Evs		10,000			lx
Incandescent light	Evr	Luminous intensity at sensing area	3,000	•		lx
Fluorescent light	Evw		3,000			lx

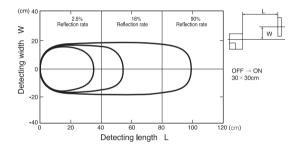
^{*2.} Collector current for output transistor

^{*3.} No icebound or dew

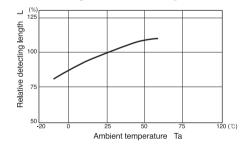
^{*4.} The connector shall be inserted or pulled out at normal temperature.

Detection area characteristics (Vcc=5V, Ta=25, C)





Detection length / Ambient temp.chracteristics



Reflection prevention seal is needed for installing a transparent panel to the front of HS-101. Also, the panel should be adhered to HS-101.

Quality level of HS-101S is set up on the assumption that main application of HS-101S is general electronic equipments, such as electric household products, O.A. equipments and A.V equipments.