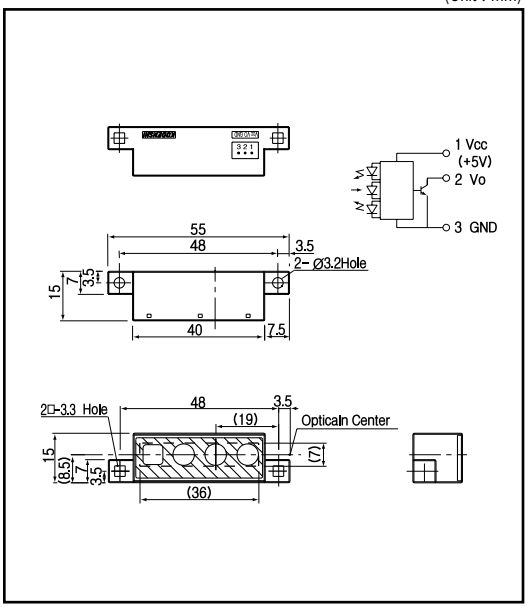
HS - 101S

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.

DIMENSIONS (Unit : mm)



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	V_{CC}	5.5	V
Output voltage *1	V_O	28	V
Low level output current *2	I_{OL}	30	mA
Operating temp.*3*4	Topr.	−10 +60	℃
Storage temp.*3*4	Tstg.	−20 +70	℃

*1. C - E voltage for output transistor
*2. Collector current for output transistor
*3. No icebound or dew
*4. The connector shall be inserted or pulled out at normal temperature.

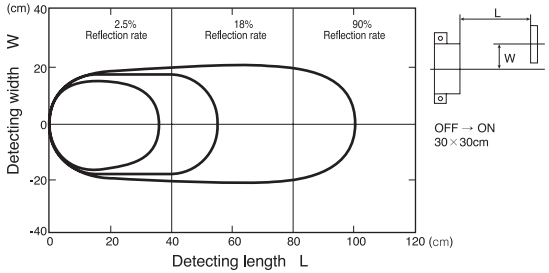
ELECTRO-OPTICAL CHARACTERISTICS

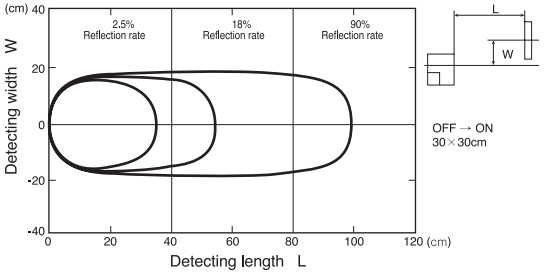
(Ta=25℃)

Item	Symbol	Conditions	Min.	Typ.	Max.	Unit.
Supply voltage	V_{CC}		4.75	5	5.25	V
Current consumption	I_{CC}			6.5	12	mA
Low level output voltage	V_{OL}	detecting V_O=5V, R_L=1kΩ			0.2	V
High level output voltage	V_{OH}	non detecting V_O=5V, R_L=1kΩ	4.5			V
Detecting distance	L_{HL}	reflection rate 90%, OFF→ON 30cm×30cm	50	100	150	cm
Hysteresis	E_{VLH}/E_{VHL}	reflection rate 90%, 30cm×30cm		85		%
Response time	t	reflection rate 90%, L=50cm, 30cm×30cm		100	200	ms
Sun light	E_{VS}	Luminous intensity at sensing area	10,000			lx
Incandescent light	E_{VT}		3,000			lx
Fluorescent light	E_{VW}		3,000			lx

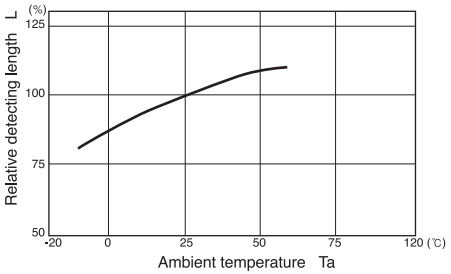
HS - 101S

Detection area characteristics (V_{CC} = 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. equipements and A.V equipments.