

# Sun sensor



S8369

## Sunlight sensor suitable for automotive use

The S8369 is a sun sensor assembled with a snap-in connector. The light input section is fitted with a cover having a wide angle directivity needed in sunlight sensors for automobile air conditioners. The S8369 is also suitable for inexpensive devices for measuring sunlight level.

### Features

- High reliability for automotive applications
- Wide angle directivity suitable as a sunlight sensor for automotive air conditioners
- Cover shape was designed for easy installation on the dash board.
- Connector and holder integrated into one piece

### Applications

- Sunlight sensor for vehicle air conditioners
- Vehicle automatic lighting sensors
- Sunlight level measurement

### Absolute maximum ratings

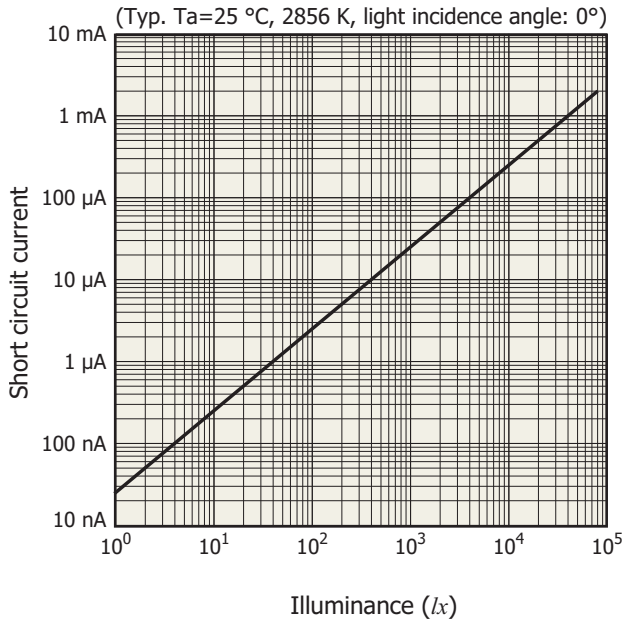
Parameter	Symbol	Value	Unit
Reverse voltage	$V_R \text{ max}$	35	V
Operating temperature	$T_{opr}$	-30 to +80	°C
Storage temperature	$T_{stg}$	-40 to +110	°C

Note: Exceeding the absolute maximum ratings even momentarily may cause a drop in product quality. Always be sure to use the product within the absolute maximum ratings.

### Electrical and optical characteristics (Ta=25 °C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Spectral response range	$\lambda$		-	320 to 1100	-	nm
Peak sensitivity wavelength	$\lambda_p$		-	960	-	nm
Short circuit current	$I_{sc}$	2856 K, 100 lx	2.0	2.5	3.0	$\mu\text{A}$
Dark current	$I_D$	$V_R=5 \text{ V}$	-	-	1	$\mu\text{A}$

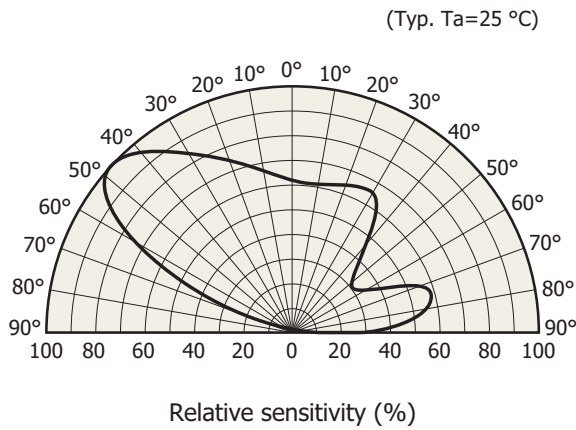
Short circuit current vs. illuminance



KSPDB0334EA

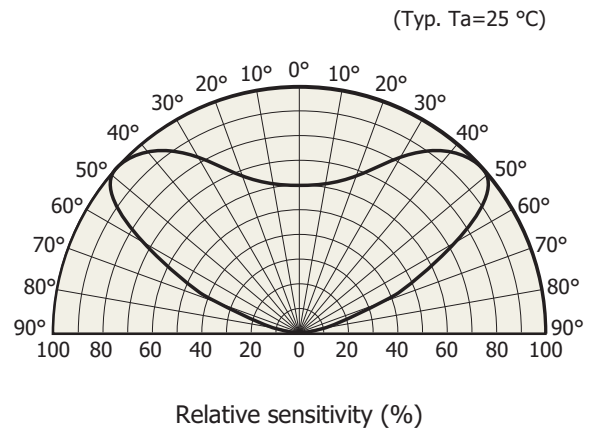
Directivity (typical examples)

Front and rear axes



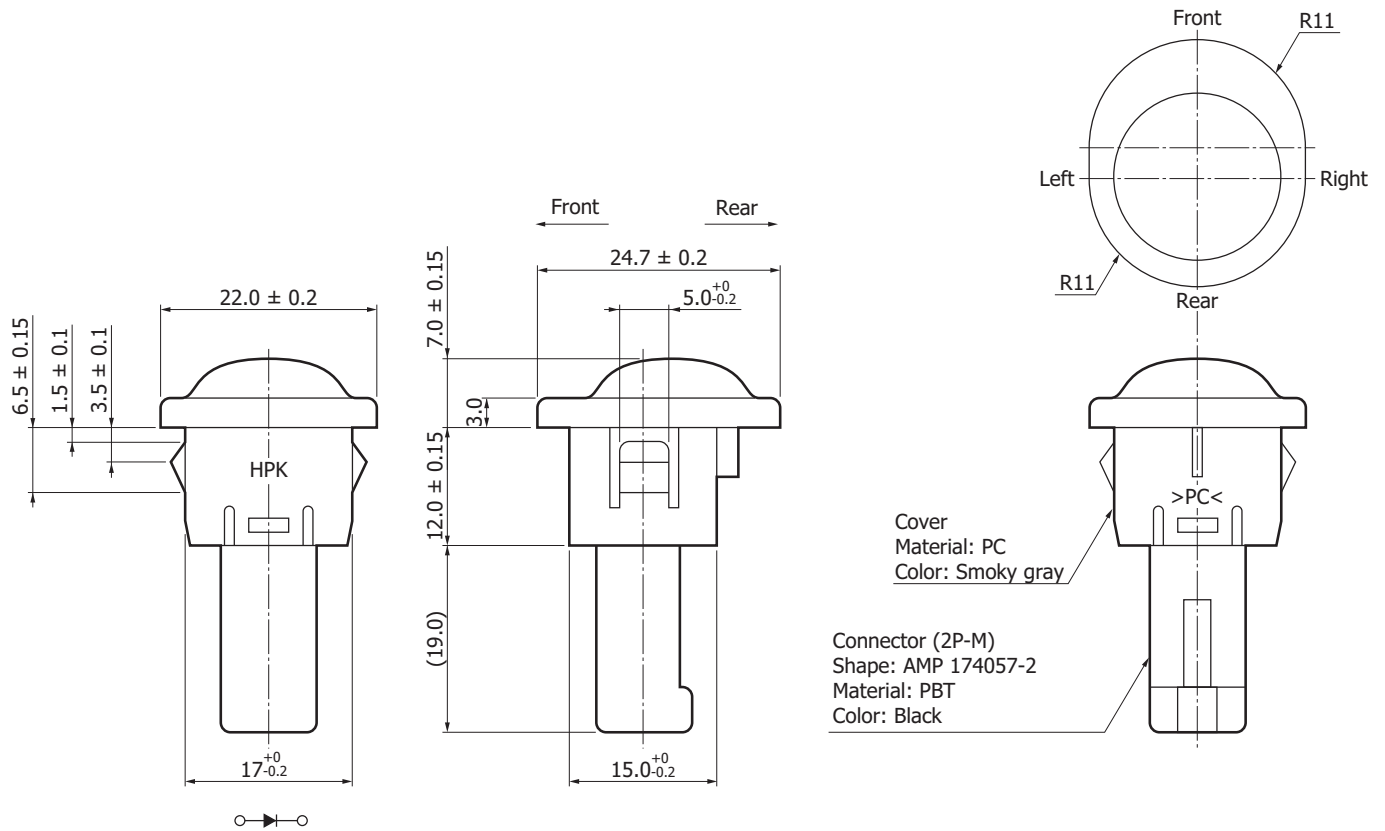
KSPDB0209EA

Left and right axes



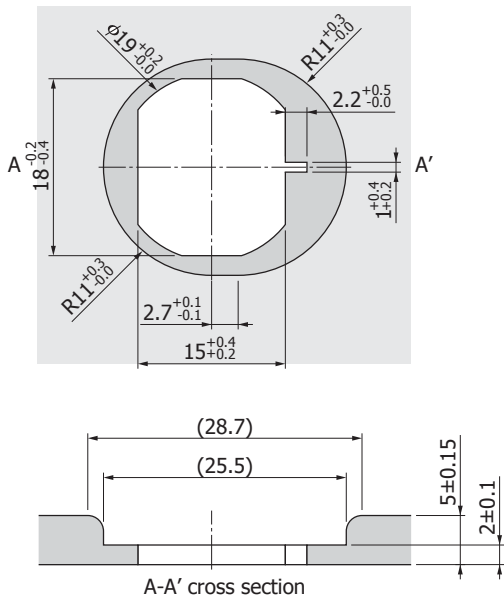
KSPDB0210EA

Dimensional outline (unit: mm)



KSPDA0150EA

Recommended installation panel (unit: mm)



KSPDA0208EA

Information described in this material is current as of December, 2013.

Product specifications are subject to change without prior notice due to improvements or other reasons. This document has been carefully prepared and the information contained is believed to be accurate. In rare cases, however, there may be inaccuracies such as text errors. Before using these products, always contact us for the delivery specification sheet to check the latest specifications.

The product warranty is valid for one year after delivery and is limited to product repair or replacement for defects discovered and reported to us within that one year period. However, even if within the warranty period we accept absolutely no liability for any loss caused by natural disasters or improper product use.

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