

Auto Defog Sensor (ADS)

Automatic Climate Control System



Amphenol's new Auto Defog Sensor (ADS) integrates Relative Humidity, Ambient Temperature and Glass temperature sensor into one compact package.

ADS provides a windshield surface temperature, cabin air temperature and relative humidity data to an automatic climate control system.

ADS can detect windshield fogging before it occurs and send a signal to automatically prevent the windshield from fogging.

Amphenol's new ADS (Auto Defog Sensor) uses the dew point of the windshield glass to predict a fogging condition and it allows a more accurate and faster response time.

Features

- Accurate Measurements of %RH and Ambient & Glass Temperature
- Fast Recovery time after condensation
- Long Term Stability of <0.5%RH per year
- Compact size and Easy mounting
- Low cost
- Fast response time
- Digital interface (I²C / LIN)
- RoHS/REACH directive compliant

Applications

- Anti Defogging system in vehicle
- Temperature and Humidity sensor

Key Technology

Angled geometry for separating two temperatures and formed air cavity for allowing high accurate performance and rapid response time.



ADS - Specifications

Supply Voltage

5.0 +/-5% VDC

Operating Temperature Range

-40°C ~ 105°C

Storage Temperature Range

-40°C ~ 120°C

Humidity Accuracy

Typical $\pm 2.5\%RH$ @ 15 ~ 90%RH

Temperature Accuracy

Typical $\pm 0.4^\circ C$ @ 5 ~ 60°C

Glass Temperature Accuracy

Max. $\pm 0.7^\circ C$ @ 5 ~ 60°C

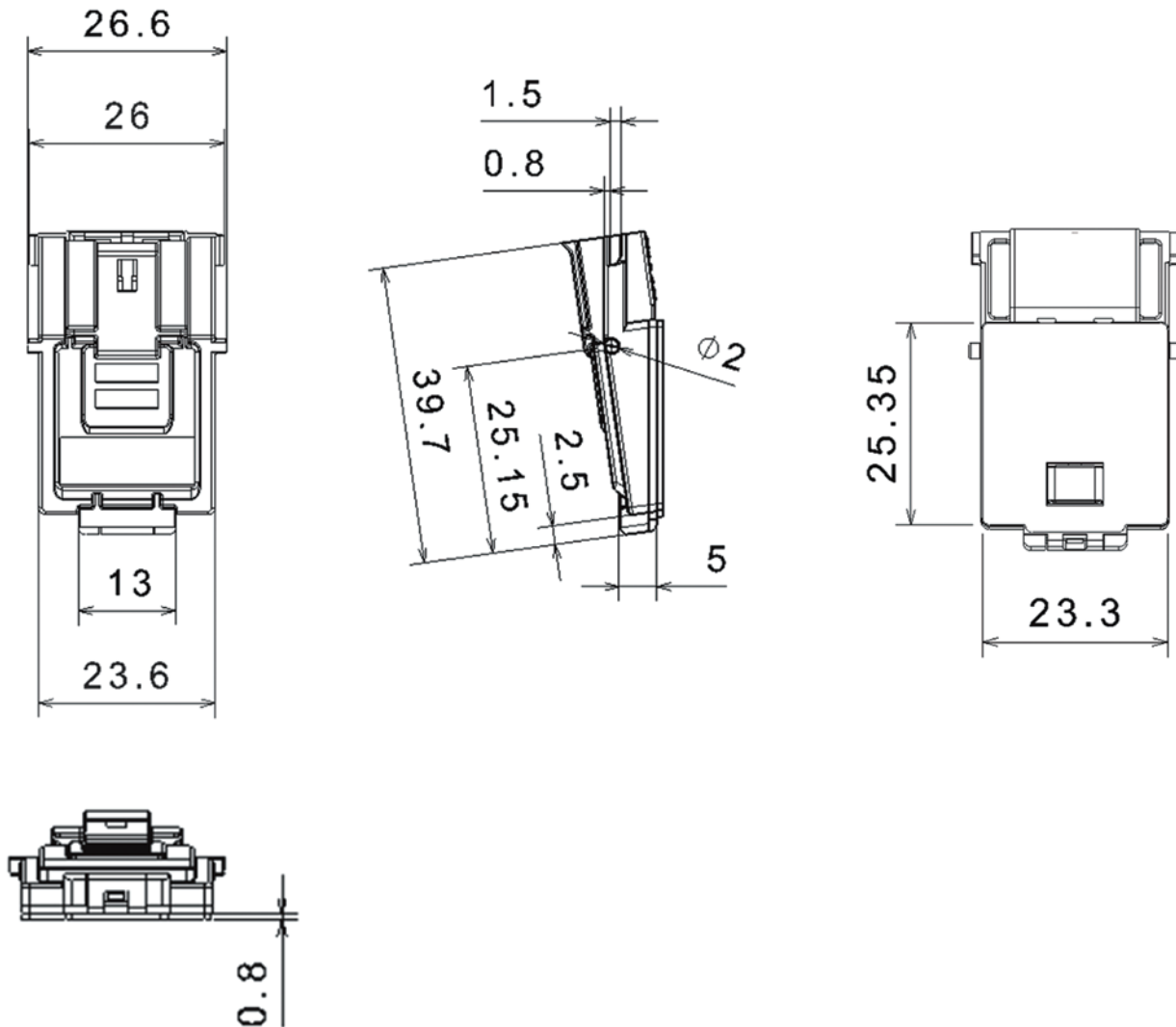
Connector

KET MG 651439

Mating Connector

KET MG 643358

Dimensions



Amphenol
Sensors

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