

# Flexible Concept for Commercial Vehicles

## Basic Solar Sensor (BSS)



Due to its geometrical design and coverage angle, the Basic Solar Sensor (BSS) is also ideal for use in commercial vehicles. The BSS thus meets the increasing comfort standards demanded for climate control systems in commercial vehicle cockpits. The design has been kept simple on purpose, in order to offer OEMs application standards for a variety of different models. The geometry can be appropriately modified to comply with the customer's specifications over a wide area of applications.

Numerous functions and hardware components are integrated into the optical ASIC, including the photodiode(s) and the amplifier circuitry. This concept leads to considerable space saving.

Design-related fault tolerances of the photodiodes are compensated for electrically in final testing, corrected and stored in the ASIC. Coverage effects are also taken into account. In terms of measurement accuracy, the sensor exhibits an excellent tolerance range of just 3 percent.

- Flexible solar sensor concept for a wide variety of commercial vehicle models
- Optical ASIC provides a high degree of integration for switching functions
- Electrical calibration of the entire unit
- Installation of combination sensors possible: e.g. mono or dual sensor including daylight recognition

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