

Current Sensors

CDS4000

Product discontinued.
Not to be used for new designs.



1. Packaging

The sensors are delivered in vacuum sealed ESD-conform trays. An empty tray is placed above the topmost sensors. A maximum of 2 full trays build a packaging unit.



Fig. 1: CDS4000 packaged in trays.



Fig. 2: CDS4000 vacuum sealed.

2. Storage

The sensors can be stored vacuum sealed without time limit in a temperature range of -20°C to $+80^{\circ}\text{C}$, limited by the temperature range of the trays.

The sensors shall be stored at 5° - 30°C for a minimum of 2 days before further processing. After opening the package the sensors are processable for a time period of 5 days at 5° - 30°C and max. 60 % relative humidity (similar to MSL 3/4). Exceeding 5 days of unsealed storage, the sensors can be dried at 80°C for 24h and sealed again to restore the original storage conditions.

Due to the magnetic sensitivity of the sensors, the direct environment of the storage location has to be kept free from magnetic fields that are stronger than 50 mT (e. g. caused by permanent magnets in motors).

3. Handling

The sensors are ESD sensitive. General ESD precautions need to be observed.

Usage of solvent-based cleaners may result in loss of the sensor labeling.

Due to the magnetic sensitivity of the sensors, usage of tools that emit magnetic fields stronger than 50 mT (e. g. magnetic screwdrivers) in the direct environment of the sensors shall be avoided.

Manual soldering is only permitted for the signal pins. The specified soldering profile ($<7\text{sec}$ @ 260°C) has to be adhered without applying any mechanical stress to the signal pins or the sensor. In this case it is recommended to pre-heat the printed circuit board to $<100^{\circ}\text{C}$.



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Sensitec GmbH

Georg-Ohm-Str. 11 · 35633 Lahnau · Germany
Tel. +49 6441 9788-0 · Fax +49 6441 9788-17
www.sensitec.com · sensitec@sensitec.com

