SENSITEC
KÖRBER SOLUTIONS

Stromsensoren

CDS4000

1. Anlieferform

Die Sensoren werden in vakuumverpackten ESD-konformen Trays angeliefert. Mit einem leeren Tray werden die obersten Sensoren abgedeckt. Maximal 2 beladene Trays bilden eine Verpackungseinheit (VE).

Abb. 1: In Trays verpackte CDS4000.

Abb. 2: Vacuumverpackte CDS4000.

2. Lagerbedingungen

Vakuumverpackt können die Sensoren, limitiert durch den Temperaturbereich der verwendeten Trays, zeitlich unbegrenzt bei -20°C bis +80°C gelagert werden.

Die Sensoren sind mindestens 2 Tage vor der Weiterverarbeitung bei 5° - 30°C zu lagern. Nach Öffnung der Verpackung sind die Sensoren bei 5° - 30°C und max. 60% relativer Luftfeuchte 5 Tage verarbeitbar (ähnlich MSL 3/4). Werden die 5 Tage offener Lagerung überschritten, kann durch Trocknen der Sensoren bei 80°C für 24h und anschließendem Verschweißen der ursprüngliche Lagerzustand wiederhergestellt werden.

Aufgrund der magnetischen Empfindlichkeit des Sensors ist die unmittelbare Umgebung des Lagerortes frei von Magnetfeldern zu halten, die stärker sind als 50 mT (z. B. Dauermagnete in Motoren).

3. Verarbeitungsbedingungen

Es handelt sich um ESD-empfindliche Bauteile. Die allgemeinen ESD-Sicherheitsmaßnhamen sind einzuhalten.

Die Verwendung von lösemittelhaltigen Reinigungsmitteln kann zum Verlust der Sensorbeschriftung führen.

Aufgrund der magnetischen Empfindlichkeit der Sensoren ist auf die Verwendung von Werkzeugen, die Magnetfelder stärker als 50 mT emittieren (z.B. magnetische Schraubendreher), in unmittelbarer Nähe der Sensoren zu verzichten.

Manuelles Löten ist nur an den Signalpins zulässig. Das in der Bauteilspezifikation vorgegebene Lötprofil (< 7sec @ 260°C) ist einzuhalten, ohne die Signalpins oder den Sensor mechanisch zu belasten. Es wird empfohlen, für diesen Fall die Leiterplatte auf <100°C vorzuheizen.

DIE NICHTBEACHTUNG EINES ODER MEHRERER DER VORSTEHENDEN HINWEISE KANN ZUM VERLUST DER GEWÄHRLEISTUNG FÜHREN. EINE HAFTUNG VON SENSITEC GMBH FÜR DIE HIERAUS ENTSTEHENDEN FOLGEN IST EBENFALLS AUSGESCHLOSSEN.

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Life Critical Applications

These products are not qualified for use in life support appliances, aeronautical applications or devices or systems where malfunction of these products can reasonably be expected to result in personal injury.

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