

CONCEPTbrief

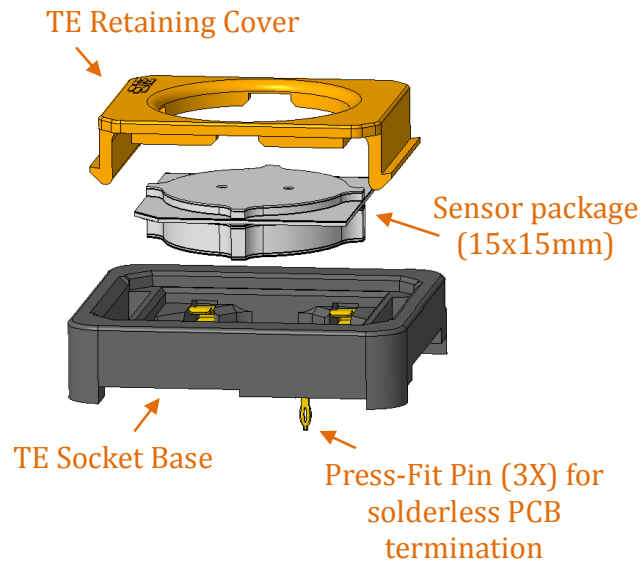
GAS SENSOR SOCKET

Description

TE Connectivity's proposed socket for SPEC Sensors brand gas sensors provides a solderless press fit electrical connection to the PCB while maintaining the sensor's low profile height advantage.

The socket's press-fit connection is a [proven solderless technology](#) used in electrical systems throughout the interconnection industry.

Further adding value, the sensor can be pre-assembled into the socket for ease of installation and reduced processing time during manufacturing.



Applications

- Smart Home Appliances
 - Carbon Monoxide Alarms
 - Smoke and Carbon Monoxide Detectors
- Building Automation
 - Indoor Air Quality Monitoring
 - Ventilation Control
- Smart City
 - Air Pollution Monitoring Nodes
- Breath Analyzers

Benefits

- Solderless PCB termination
- Low profile height advantage of sensor maintained
- Sensor packaging is simplified for the manufacturer
- Ability to replace sensor

Features

- Press-fit contacts
- Polarization of sensor to socket base
- Removable retaining cover
- Option to increase height and clearance under socket base freeing PCB real estate for additional component placement

CONCEPTUAL PRODUCT ONLY

TE provides this preliminary information to solicit customer feedback and comments on product applicability, required features, desired variations, likes/dislikes, price points, timing, and volume potential in end-applications. This feedback is appreciated since it helps TE provide the right products with the right features to our customers.

Design Details

Standards & Specifications

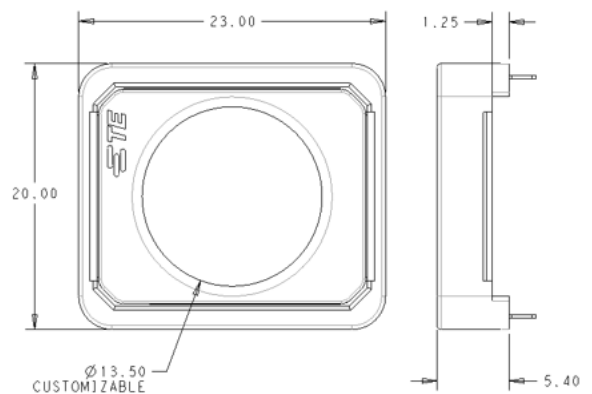
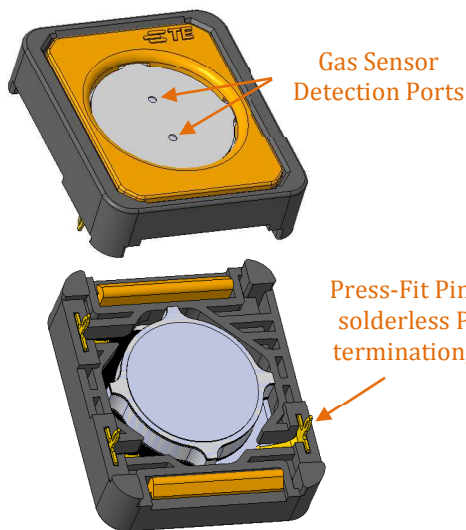
- Temperature: -30°C to +55°C
- Humidity: non-condensing humidity environment
- RoHS compliant

Product Offering

- Socket Base and Retaining Cover (gas sensor sold separately)
- Pre-assembled socket w/ CO (Carbon Monoxide) sensor

Product Dimensions

TE Sensor Socket with 15x15mm
SPEC Sensor Gas Sensor Installed



Note: Options exist to

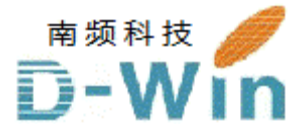
- 1) change solderless press-fit contacts to soldertails requiring solder attach of socket base followed by hand assembly of sensor and retaining cover.
- 2) increase the PCB standoff dimension from 1.25mm to 2.0mm to accommodate the placement of components on the PCB under the socket housing.

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For more information, please contact:
Scott Hamilton, Business Development Lead

Email scott.hamilton@te.com
 Cell +717-571-5147





SPEC-Sensors.com代理商联系方式:

样品, 报价, 评估板, 参考设计, 技术支持

电话: 0755-82565851

邮件: dwin100@dwintech.com

手机: 156-2521-4151

网址: http://www.dwintech.com/Gas_Sensor_Pamphlet.html

深圳市南频科技有限公司

D-Win Technology (HongKong) Co., Ltd