GAS SENSOR SOCKETS FOR

SolidsenSe
Gas Sensors

Largest Line of High Reliability Sensor Sockets with Andon’s Unique Senstac™ Contact

www.andonelect.com or www.andonelectronics.com
Gas Sensor Sockets

At Andon Electronics, we provide interconnection components that help companies to cost effectively protect, assemble, test and replace their semiconductor devices.

Risks

- **Electrolytes:** Leakage can cause irritation of the eyes and skin. Inhalation of the vapors can affect the lungs. Corrosion of the surrounding area, resulting in damage to equipment.

- **Temperature:** High temperature RoHS lead free solders can seriously damage the sensors. Gas Sensors cannot be convection soldered due to the high soldering temperatures, which can completely destroy the gas sensor.

- **Solvents:** Production line exposure to solvents can damage gas sensors. Organic vapor can degrade the plastic body of the sensor, create false base lines and block sensing electrodes.

Solution

Socket Contacts developed by Andon Electronics Corporation over the past forty years for the Military and Aerospace industries, are produced in-house for a variety of pin diameters.

- Solder Andon sockets on the PCB and plug-in the Sensor after all other assembly and testing.
- Sockets available for all brands of sensors.
- Footprints are the same as the Sensor.
- Various terminal and socket sizes available: Thru-hole, Surface Mount and Low Profile Carrier Socket.

Improved Reliability

- Complete rework and testing without the sensor reduces risk of damage and loss.
- Enables easy field replacements and upgrades of sensors.
- Improve cash flow by volume PCB assembly cost savings; soldering Andon Sockets and buying Sensors as needed.
## SolidsenSe Gas Sensor Sockets

<table>
<thead>
<tr>
<th>SolidsenSe Gas Sensor Sockets</th>
<th>Andon Part Number</th>
<th>Terminal Type</th>
<th>Pin Ø [in]</th>
<th>Figure Number</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 Series</td>
<td>R530-0403-02N-XXX-R27-L14</td>
<td>Thru-Hole</td>
<td>0.060</td>
<td>5</td>
<td>2</td>
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<tr>
<td>4 Series Combustible</td>
<td>R300-SP03-02T-XXX-R27-L14</td>
<td>Surface Mount</td>
<td>0.060</td>
<td>3</td>
<td>1</td>
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<tr>
<td>7 Series</td>
<td>R670-0804-02N-XXX-R27-L14</td>
<td>Thru-Hole</td>
<td>0.040</td>
<td>6</td>
<td>2</td>
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<tr>
<td>IR Series</td>
<td>R420-SP05-04T-XXX-R27-L14</td>
<td>Surface Mount</td>
<td>0.060</td>
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<td>2</td>
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<tr>
<td>Micro Series</td>
<td>405-03-XXX-R27-L14</td>
<td>Thru-Hole</td>
<td>0.018</td>
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<td>1</td>
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<tr>
<td>Micro+ Series</td>
<td>C10-42108-06-XXX-R27-L14</td>
<td>Surface Mount</td>
<td>0.018</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

### Top View Shown

Units: in [mm]

Fig. 1

Thru-Hole: 405-03-01S-R27-L14
Surface Mount: 405-03-93S-R27-L14

Fig. 2

Thru-Hole: C10-42108-06-01S-R27-L14
Surface Mount: C10-42108-06-93S-R27-L14

Fig. 3

Thru-Hole: R300-SP03-02T-436P55-R27-L14
Surface Mount: R300-SP03-02T-440P55-R27-L14
Sockets

Selenium Gas Sensor Continued
Top View Shown
Units: in [mm]

Fig. 4
Thru-Hole: R420-SP05-04T-436P55-R27-L14
Surface Mount: R420-SP05-04T-440P55-R27-L14

Fig. 5
Thru-Hole: R530-0403-02N-436P55-R27-L14
Surface Mount: R530-0403-02N-440P55-R27-L14

Fig. 6
Thru-Hole: R670-0804-02N-433E-R27-L14
Surface Mount: R670-0804-02N-285E-R27-L14

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America

RoHS Compliant
ISO 9001 Certified

"ANDON PROPRIETARY INFORMATION"
RoHS Compliant

*Sockets are not drawn to scale. Selenium Gas Sensor 04/11/2013

ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America

www.andonelectronics.com or www.andonelect.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelect.com

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ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America

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Email Info@andonelect.com
Sockets

SolidsenSe Gas Sensor  Continued

Socket Terminal Details
Cross Section View Shown Units: In [mm]

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Material:
Insulator: Hi-Temp UL 94V-O
Terminal: Brass, per ASTM-B16
Contact: BeCu, Per ASTM-B194

Plating: RoHS COMPLIANT
R27 TERMINAL: GOLD / CONTACT: GOLD
OTHER PLATINGS AVAILABLE

Terminal Acceptance and Forces

<table>
<thead>
<tr>
<th>Thru Hole Terminals</th>
<th>Surface Mount Terminals</th>
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</thead>
<tbody>
<tr>
<td>Accepts Pin Diameter</td>
<td>6.0 oz Avg.</td>
</tr>
<tr>
<td>Ø.018 [0.46]</td>
<td>Ø.040 [0.10]</td>
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<tr>
<td>Ø.040 [0.10]</td>
<td>36.0 oz Max</td>
</tr>
<tr>
<td>Ø.060 [0.15]</td>
<td>2.1 oz Min</td>
</tr>
<tr>
<td>-433E</td>
<td>-440P55</td>
</tr>
<tr>
<td>-436P55</td>
<td>-440P55</td>
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RoHS Compliant

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ANDON ELECTRONICS CORPORATION
4 Court Drive, Lincoln RI 02865, United States of America
www.andonelectronics.com or www.andonelectrol.com
Phone 401-333-0388 Fax 401-333-0287
Email Info@andonelct.com