NON-CONTACT CAN SENSOR
SP7001, SP7002

Brings accuracy to automotive development and evaluation testing by preventing erroneous judgments caused by faulty detection. Also captures low-frequency events with a high degree of reliability.

The SP7001/SP7002 uses a no-metal-contact detection method that requires no contact with CAN bus electric circuitry. The technology allows evaluation testing to be carried out on public roads since test vehicles do not need to be modified.

Reliability
Complete measurement assurance by capturing the entire signal
Brings accuracy to automotive development and evaluation testing by preventing erroneous judgments caused by faulty detection. Also captures low-frequency events with a high degree of reliability.

Consistent performance
Avoid damage to the cable
No impact to CAN bus characteristics
The SP7001/SP7002 uses a no-metal-contact detection method that requires no contact with CAN bus electric circuitry. The technology allows evaluation testing to be carried out on public roads since test vehicles do not need to be modified.

50-sec. introductory video
https://www.youtube.com/embed/XdHYFXkIq4?rel=0
## Simple operation

### Keep using your favorite CAN interface

Use your preferred CAN analyzer

If you already have a CAN FD/CAN analysis system, you can start using the product right away - simply connect it to your system’s input terminal (D-sub 9-pin connector).

### Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>CAN FD / CAN compatible</th>
<th>CAN compatible</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model number (order code)</td>
<td>SP7001-90</td>
<td>SP7002-90</td>
</tr>
<tr>
<td>Supported transmission speeds</td>
<td>CAN FD : 125 kbit/s to 3 Mbit/s</td>
<td>CAN : 125 kbit/s to 1 Mbit/s</td>
</tr>
<tr>
<td>Target cables</td>
<td>Outer diameter of 1.2 to 2.0 mm (0.05 to 0.08 in)</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-40℃ to 85℃ (-40℉ to 185℉)</td>
<td></td>
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</tbody>
</table>

### Package contents

- Figures in parentheses indicate cable lengths.

- **NON-CONTACT CAN SENSOR**: SP7001 × 1
- **NON-CONTACT CAN SENSOR**: SP7002 × 1
- **CAN INTERFACE**: SP7100, **SIGNAL PROBE**: SP9200, **POWER CABLE**: L9500, **ALLIGATOR CLIP**: (GND cable) × 1

### 2-channel simultaneous detection

Since one CAN interface can accommodate two channels of input, you can detect two channels at once by purchasing an additional non-contact CAN sensor.

- **Product combinations for 2-channel detection**: SP7001-90, SP7001
- **Product combinations for 2-channel detection**: SP7002-90, SP7002

### Combine freely

You can also use the SP7001 and SP7002 together in a single system.

### Standalone products and options

- **SIGNAL PROBE**: SP9200
- **NON-CONTACT CAN SENSOR**: SP7001 (CAN FD / CAN compatible), SP7002 (CAN compatible)
- **POWER CABLE**: L9500 (For supplying 12 to 24 V DC)
- **AC ADAPTER**: Z1008 (For supplying 100 to 240 V AC)
- **SPLIT CABLE**: SP9900 (For branching channel 1 and 2 output)
- **CARRYING CASE**: C1013 (Rigid case)

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All information correct as of Oct. 31, 2019. All specifications are subject to change without notice.