SERIES 9D

General Description
The Canfield Connector Series 9D is a universal, ultra-small, magnetic proximity switch available in both solid state electronic and reed styles. These sensors are designed to fit the most stringent space requirements by use of a standard .250 inch dovetail slot. Many other mounting options are also available. The electronic sensor exhibits greater sensitivity to magnetism with reduced dead-band and hysteresis as compared to competitive devices. The reed sensor offers a wide operating voltage range. The molded switch has an on board indicator light that can be viewed from wide angles. Standard connection to the sensor is provided by a 9 ft. PVC or 8mm quick connect male pigtail. The rugged, fully encapsulated switch is shipped with mounting hardware ready for installation.

Dimensional Data
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

Technical Data
- Material: Nylon, TPU and PVC
- Temperature Range: Operational from -20° to +80°C
- Shock: Operational up to 30G (11 ms.) reeds only. Not applicable for electronic.
- Vibration: Operational up to 20G (10 - 55 Hz) reeds only. Not applicable for electronic.
- Sensitivity and Orientation: 85 gauss parallel (standard for reeds) 25 gauss parallel (standard for electronic)

Features
- Small sensor fits most space requirements.
- Stand-alone mounting into any 1/4" dovetail slot (machined or extruded)
- Other special mounting clamp styles available
- Indicator light
- Corrosion and washdown resistant.
- Electronic sensing version (no moving parts)
- 60° wire outlet for close mounting
- Reverse polarity protection
- DC or AC voltage versions
- Compatible with IS (Intrinsically Safe) barriers
- Available for dovetail, round, tie-rod and rodless cylinder mountings.
**Mounting Styles**

0 - 1/4" 60° dovetail (standard)
1 - 12mm 60° dovetail adapter
2 - 3/8" 60° dovetail adapter
3 - Round cylinder clamp 3/4" - 4" bore
4 - 14mm 60° dovetail adapter
F - NFPA tie-rod cylinder clamp 1" - 2 1/2" bore
G - Flat series cylinder clamp 3/4" - 2" bore
H - Flat series cylinder clamp 2 1/4" - 4" bore
J - NFPA tie-rod cylinder clamp 3 1/4" - 8" bore

* Mates with cordsets shown at right.

**Connection Options**

0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*

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0 - 9 ft PVC cable
3 - 8mm quick connect male pigtail*

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**Series 9D**

<table>
<thead>
<tr>
<th>Can-Pak Part Number</th>
<th>Qty</th>
<th>Normally Open Function</th>
<th>Switch Type</th>
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<tbody>
<tr>
<td>CP-9D10-000-002-010</td>
<td>10</td>
<td>SPST</td>
<td>Reed</td>
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<tr>
<td>CP-9D10-000-031-010</td>
<td>10</td>
<td>PNP</td>
<td>Electronic</td>
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</tbody>
</table>

**Ordering Example:**

9D10-000-002

1/4" dovetail, 9 ft. PVC cable, reed switch for PLC's with LED, SPST, normally open, 5 - 120V AC/DC 50/60 Hz