Passive Speed Sensors

General Purpose

Ordering Part # | Thread Length (A) | (Select cable from group “A”, see index)
--- | --- | ---
70085-1010-001 | 1.125 (28.57) | 5/8–18 UNF-2A
70085-1010-003 | 2.625 (66.67) | LOCKNUT
70085-1010-018 | 3.625 (92.07) | MATES WITH MS3106A10SL-4S
70085-1010-118 | 5.000 (127.00) | Ø 0.106 (2.69)

Specifications:
- Output Voltage (Standard): 40 V (P-P)
- DC Resistance: 130 ohms max.
- Typical Inductance: 33 mH ref.
- Output Polarity: Pin ‘B’ positive
- Operating Temperature: -55 to +107°C
- Net Weight: 5 oz. max.

Performance Curves

Based on 20 D.P. Gear

High Sensitivity

Ordering Part # | Thread Length (A) | (Select cable from group “A”, see index)
--- | --- | ---
70085-1010-002 | 1.125 (28.57) | 5/8–18 UNF-2A
70085-1010-175 | 2.625 (66.67) | LOCKNUT
70085-1010-026 | 3.625 (92.07) | MATES WITH MS3106A10SL-4S
70085-1010-408 | 5.000 (127.00) | Ø 0.106 (2.69)

Specifications:
- Output Voltage (Standard): 150 V (P-P)
- DC Resistance: 1500 ohms max.
- Typical Inductance: 360 mH ref.
- Output Polarity: Pin ‘B’ positive
- Operating Temperature: -55 to +107°C
- Net Weight: 5 oz. max.

Performance Curves

Based on 20 D.P. Gear

Dimensions in inches and (mm).
Passive Speed Sensors

Power Output

Ordering Part #    Thread Length (A)
70085-1010-028    1.437 (36.50)
(Select cable from group “A”, see index)

Performance Curves

Specifications:
- Output Voltage (Standard): 75 V (P-P)
- Output Voltage (Guarantee Point): 21.5 V (P-P)
- DC Resistance: 210 ohms max.
- Typical Inductance: 50 to 95 mH ref.
- Output Polarity: Pin “B” positive
- Operating Temperature: -73 to +107°C
- Net Weight: 2.2 oz. max.

Conduit Fitting – General Purpose

Ordering Part #    Thread Length (A)
70085-1010-004    1.125 (28.57)
70085-1010-469    2.750 (69.85)

Performance Curves

Specifications:
- Output Voltage (Standard): 43 V (P-P)
- Output Voltage (Guarantee Point): 4.3 V (P-P)
- DC Resistance: 130 ohms max.
- Typical Inductance: 32-46 mH ref.
- Output Polarity: Red lead positive
- Operating Temperature: -73 to +107°C
- Lead length: 10 ft (3.05 m)
- Net Weight: 16 oz. max.

Dimensions in inches and (mm).
## Passive Speed Sensors

### 5/8 – 18 FAMILY

#### Full Thread – Power Output

<table>
<thead>
<tr>
<th>Ordering Part #</th>
<th>Thread Length (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70085-1010-131</td>
<td>1.80</td>
<td>(45.72)</td>
</tr>
<tr>
<td>70085-1010-214</td>
<td>3.06</td>
<td>(77.72)</td>
</tr>
</tbody>
</table>

#### Performance Curves

Based on 8 D.P. Gear

#### Specifications:
- **Output Voltage (Standard):** 120 V (P-P)
- **Output Voltage (Guarantee Point):** 15.1 V (P-P)
- **DC Resistance:** 250 ohms max.
- **Typical Inductance:** 40-60 mH ref.
- **Output Polarity:** White lead positive
- **Operating Temperature:** -55 to +107°C
- **Cable Length:** 10 ft (3.05 m)
- **Net Weight:** 5 oz. max.

#### Full Thread – General Purpose

<table>
<thead>
<tr>
<th>Ordering Part #</th>
<th>Thread Length (A)</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70085-1010-078</td>
<td>1.80</td>
<td>(45.72)</td>
</tr>
<tr>
<td>70085-1010-137</td>
<td>3.06</td>
<td>(77.72)</td>
</tr>
</tbody>
</table>

#### Performance Curves

Based on 20 D.P. Gear

#### Specifications:
- **Output Voltage (Standard):** 40 V (P-P)
- **Output Voltage (Guarantee Point):** 3.4 V (P-P)
- **DC Resistance:** 130 ohms max.
- **Typical Inductance:** 33 mH ref.
- **Output Polarity:** White lead positive
- **Operating Temperature:** -55 to +107°C
- **Lead Length:** -078, 12 in (30.5 cm)
- **-137, 24 in (60.9 cm)
- **Net Weight:** 3 oz. max.

*Dimensions in inches and (mm).*
Passive Speed Sensors

Molded

Ordering Part #   Thread Length (A)
70085-1010-421   2.475   (62.87)
70085-1010-425   3.000   (76.20) * M16 x 1.5 Thd.
70085-1010-424   4.493   (114.12)
(Select cable from group “A”, see index)

Performance Curves **

Specifications:
- Output Voltage (Standard): 63 V (P-P)
- Output Voltage (Guarantee Point): 4.9V (P-P)
- DC Resistance: 250 ohms max.
- Typical Inductance: 63 mH ref.
- Output Polarity: Pin ‘B’ positive
- Operating Temperature: -55 to +107° C
- Net Weight: 5 oz. max.

Dimensions in inches and (mm).
Passive Speed Sensors

3/8 – 24 FAMILY

General Purpose

Ordering Part # | Thread Length (A)
--- | ---
70085-1010-007 | .812 (20.62)
70085-1010-056 | 3.625 (92.08)

Performance Curves

![Performance Curves Graph](image)

Based on 20 D.P. Gear

High Sensitivity

Ordering Part # | Thread Length (A)
--- | ---
70085-1010-086 | .812 (20.62)
70085-1010-355 | .812 (20.62)

Performance Curves

![Performance Curves Graph](image)

Based on 20 D.P. Gear

Specifications:
- Output Voltage (Standard): 55 V (P-P)
- Output Voltage (Guarantee Point): 4.2V (P-P)
- DC Resistance: 960 ohms max.
- Typical Inductance: 125 mH ref.
- Output Polarity: White lead positive
- Operating Temperature: -55 to +107°C
- Lead Length: -086, 18 in (45.7 cm)
- Cable Length: -355, 40 in (101.6 cm)
- Net Weight: 2 oz. max.

Dimensions in inches and (mm).