Pile Driver Series
With a solid, stainless steel housing, Pile Driver is designed for jobs where impact and abrasion are common. For welding environments, Pile Drivers have a tough, Black Armor coating that resists weld slag buildup and welding spatter.

Inclination Sensors
Using the latest technology in IC based electro-mechanical measurement systems, the F99 inclination sensor is used to measure the tilt angle position. Offered in single-axis and dual-axes versions, the F99 provides analog and switch point outputs with a selectable angle measurement range between 0 to 360°.

Position Measurement Sensors
Our PMI series of inductive positioning measurement devices are offered in measurement lengths that range from just a few millimeters to one meter. For an angular measurement, devices are available with a measuring range of 0 to 360°. In addition to standard analog outputs, these devices also offer configurable switch point outputs for limit detection.

Ring and Slot Inductive Sensors
Pepperl+Fuchs offers ring sensors with through-hole diameters ranging from 10 mm to 100 mm. Typical applications include wire-breakage monitoring and part-ejection verification. Slot sensors are available in slot widths from 2 mm to 30 mm.

Limit Switch and Flat Pack Sensors
Limit switch inductive sensors mount in the identical footprint as traditional mechanical limit switches. Their sensing ranges extend from 15 mm to 40 mm. Flat pack inductive products offer the longest available sensing ranges (50 mm). Both styles are available in multiple output configurations.
CAPACITIVE PROXIMITY SENSORS

Capacitive Proximity Sensors

Cylindrical & Surface Mount

12 mm Diameter 18 mm Diameter 30 mm Diameter F64 50 mm Diameter Ultra Slim F46 Ultra Slim Limit Switch FP

Highlights
- Adjustable sensing range
- Plastic or metal housing
- Shielded or unshielded models
- Adjustable sensing range
- Plastic or metal housing
- Shielded or unshielded models
- Small housing
- High sensing range
- LED indication
- Adjustable sensing range
- Integral switches configure NPN/PNP and N.O./N.C.
- Fixed range
- Surface or tie-wrap mounting
- Plastic housing
- NPN, PNP models
- Adjustable sensing range
- Limit switch-style housing
- Shielded model
- Adjustable sensing range
- Longed sensing range
- Unshielded models

Sensing Range
- 1-8 mm
- 1-8 mm
- 1-30 mm
- 8, 12, 15 mm
- 1-30 mm
- 2, 5, 10 mm
- 1-15 mm
- 1-50 mm

Adjustable Sensitivity

NAMUR (Intrinsically Safe)

3-Wire DC (PNP & NPN)

4-Wire DC (PNP & NPN)

2-Wire AC

Chemically Resistant

Electrical Connection
- Cabled
- Cabled
- Cabled, micro
- Cabled
- Cabled
- Cabled
- Terminal connection

Capacitive Sensors
Pepperl+Fuchs’ capacitive sensors can be used to detect nonmetallic objects. These include liquids, such as acids, water, and oil; as well as granular materials, including grain, flour, and sugar. They are available in several housing styles, including cylindrical, limit switch, and flat pack. Most are made of stainless steel or durable crastin, and feature sensing ranges from 1 mm to 50 mm. They are ideally suited for “point” level control in flat-walled vessels and flow/no flow indication in plastic tubing. Versions are available with PVDF housings offering chemical resistance and IP68 rating.

Accessories

Sight Glass Mounts
This handy mount enables the use of 30 mm diameter capacitive sensors for level control applications. Just slide the mount over any glass or plastic tube with a 9.5 mm to 38 mm diameter. The mount makes it easier to adjust the sensor without disturbing the fluid inside the tank.

Mounting Flanges
Mounting flanges keep tanks sealed when the sensor is removed. They are made of a durable Teflon® or Delrin® material and have a 30 mm diameter.

Teflon® and Delrin® are registered trademarks of E.I. du Pont de Nemours & Company.

Want more information?
Simply go to: www.sensing.net/capacitive
# Inductive Proximity Sensors

## Inductive Proximity Sensors

### Cylindrical

<table>
<thead>
<tr>
<th>Diameter</th>
<th>3 mm</th>
<th>4 mm</th>
<th>4.5 mm</th>
<th>5 mm</th>
<th>6.5 mm</th>
<th>8 mm</th>
<th>11 mm</th>
<th>12 mm</th>
<th>18 mm</th>
<th>30 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Features</strong></td>
<td>Smallest size</td>
<td>Smooth barrel</td>
<td>Fast switching</td>
<td>Stainless steel</td>
<td>Smallest size</td>
<td>Smooth barrel</td>
<td>Fast switching</td>
<td>Stainless steel</td>
<td>Smallest size</td>
<td>Smooth barrel</td>
</tr>
<tr>
<td>Sensing Range (Shielded)</td>
<td>0.6, 1 mm</td>
<td>0.8, 1 mm</td>
<td>0.8 mm</td>
<td>0.8, 1.5 mm</td>
<td>1.5, 2 mm</td>
<td>1.5, 2, 3, 4 mm</td>
<td>2 mm</td>
<td>2, 3, 4, 6 mm</td>
<td>5, 8, 12 mm</td>
<td>8, 10, 15 mm</td>
</tr>
<tr>
<td>Sensing Range (Unshielded)</td>
<td>3 mm</td>
<td>2, 3, 4, 6 mm</td>
<td>5 mm</td>
<td>4, 6, 7, 8, 10 mm</td>
<td>8, 12, 15, 20 mm</td>
<td>15, 20, 25, 30, 40 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>NAMUR (Intrinsically Safe)</strong></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2-Wire DC</td>
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<tr>
<td>3-Wire DC</td>
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<tr>
<td>4-Wire DC</td>
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<tr>
<td>2-Wire AC</td>
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<tr>
<td>2-Wire AC/DC</td>
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<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Electrical Connection</strong></td>
<td>Cabled</td>
<td>Cabled</td>
<td>Cabled</td>
<td>Cabled, nano</td>
<td>Cabled, nano, micro</td>
<td>Cabled</td>
<td>Cabled</td>
<td>Cabled, micro</td>
<td>Cabled, micro, mini</td>
<td>Cabled, micro, mini</td>
</tr>
<tr>
<td><strong>Half Pint</strong></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td><strong>AS-Interface Compatible</strong></td>
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<tr>
<td><strong>Reduction Factor 1</strong></td>
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</tr>
</tbody>
</table>

### Typical Applications:
- Robotics
- Conveyors
- Machine tools
- Counting
- Elevators

### Accessories

#### Mounting Brackets

An extensive selection of mounting brackets is available in a variety of materials and mounting configurations to complement our product line.

#### Rotational Speed Monitor

The KFU8-DW-1.D is easily programmed to monitor for overspeed. It also provides a startup override feature, allowing the relay output to be controlled by an external input to prevent false triggering at startup.

#### Frequency to Voltage/Current Converter

The KFU8-FSSP-1.D is a signal conditioner that converts input frequency pulses to an analog voltage or current signal. It provides isolation for the sensor inputs as well as the analog output.

### Want more information?

Simply go to: [www.sensing.net/inductive](http://www.sensing.net/inductive)
INDUCTIVE PROXIMITY SENSORS

Inductive Proximity Sensors

Surface Mount

<table>
<thead>
<tr>
<th>Model</th>
<th>Highlights</th>
<th>Sensing Range (Shielded)</th>
<th>Sensing Range (Unshielded)</th>
<th>NAMUR (Intrinsically Safe)</th>
<th>2-Wire DC</th>
<th>3-Wire DC</th>
<th>4-Wire DC</th>
<th>2-Wire AC</th>
<th>4-Wire AC</th>
<th>2-Wire AC/DC</th>
<th>Electrical Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>F79</td>
<td>Smallest housing, IP67, 16 x 8 x 4.7 mm, 5-30 VDC operation</td>
<td>1.5 mm</td>
<td>2 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled</td>
</tr>
<tr>
<td>F41</td>
<td>Nickel-plated brass housing, Narrow housing style, 48 x 8 x 8 mm</td>
<td>1.5, 2 mm</td>
<td>4 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled, nano</td>
</tr>
<tr>
<td>F29</td>
<td>Small, compact housing, Corner LED, 5-30 VDC operation</td>
<td>2 mm</td>
<td>4 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled, nano</td>
</tr>
<tr>
<td>V3</td>
<td>Miniature rectangular housing, LED status, Stackable (shielded) models</td>
<td>2.3 mm</td>
<td>4 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled, nano, FASTON terminal</td>
</tr>
<tr>
<td>F1</td>
<td>Fast switching, LED status</td>
<td>2.4 mm</td>
<td>8 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled, nano</td>
</tr>
<tr>
<td>F33</td>
<td>Flat rectangular plastic housing, NPN and PNP models</td>
<td>5, 7, 8 mm</td>
<td>5, 7 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled, micro pigtail</td>
</tr>
<tr>
<td>F104M</td>
<td>Flat rectangular metal housing, NPN and PNP models</td>
<td>5, 7 mm</td>
<td>10 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled</td>
</tr>
<tr>
<td>F17</td>
<td>Output status LED, Thin housing, 50 x 30 x 7 mm</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>Cabled</td>
</tr>
</tbody>
</table>

Typical Applications:
- Actuators
- Positioning
- Packaging machinery
- Jam protection
- Air or hydraulic cylinder positioning

Crastin® is a registered trademark of E.I. du Pont de Nemours & Company.

Accessories

**Standstill Monitor**
The KFD2-SR2-2.W.SM is a zero speed/standstill monitor that accepts input frequency pulses and triggers an output when the frequency drops below a selected level.

**Isolated Switch Amplifier**
The KFA6-SR-2.3L.FA functions as a switch isolator/power supply for min/max control. It also provides an output conversion to form C relay contacts.

Want more information? Simply go to: [www.sensing.net/inductive](http://www.sensing.net/inductive)
## Inductive Proximity Sensors

**Surface Mount (continued)**

<table>
<thead>
<tr>
<th><strong>Highlights</strong></th>
<th><strong>F7/F10</strong></th>
<th><strong>RHINO™</strong></th>
<th><strong>Limit Switch</strong></th>
<th><strong>Flat Pack</strong></th>
<th><strong>F23</strong></th>
<th><strong>Slot Type</strong></th>
<th><strong>Ring Type</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mini cube style</td>
<td>Shielded or unshielded models</td>
<td>Metal base and bracket</td>
<td>Limit switch-style housing</td>
<td>Flat pack housing</td>
<td>Longest sensing range</td>
<td>2-30 mm slot widths</td>
<td></td>
</tr>
<tr>
<td>Shielded or unshielded models</td>
<td>Metal or plastic base</td>
<td>DC models (4 LEDs)</td>
<td>Metal base, 1/2&quot; NPT</td>
<td>Metal, 1/2&quot; NPT</td>
<td>2-30 mm slot widths</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Metal or plastic base</td>
<td>Quick-release plastic bracket</td>
<td>Weld immune models</td>
<td>Corner LED</td>
<td>Plastic housing, aluminum base</td>
<td>Highly accurate detection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weld immune models</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Greater than 1 kHz switching possible with NAMUR</td>
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</tr>
<tr>
<td>Sensing Range (Shielded)</td>
<td>7 mm</td>
<td>20 mm</td>
<td>20 mm</td>
<td>40, 50, 75 mm</td>
<td>2-30 mm slot widths</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensing Range (Unshielded)</td>
<td>5, 7, 10 mm</td>
<td>40 mm</td>
<td>40 mm</td>
<td>40, 50, 75 mm</td>
<td>2-30 mm slot widths</td>
<td></td>
<td></td>
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<tr>
<td>NAMUR (Intrinsically Safe)</td>
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<tr>
<td>2-Wire DC</td>
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<tr>
<td>3-Wire DC</td>
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<tr>
<td>4-Wire DC</td>
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<tr>
<td>2-Wire AC</td>
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<tr>
<td>4-Wire AC</td>
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<td></td>
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<tr>
<td>2-Wire AC/DC</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Electrical Connection</td>
<td>Cabled, micro</td>
<td>Micro, mini</td>
<td>Terminal connection, mini</td>
<td>Micro, mini, terminal connection</td>
<td>Cabled, micro</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hall Pint</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>AS-Interface Compatible</td>
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<tr>
<td>Reduction Factor 1</td>
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</tr>
</tbody>
</table>

**Typical Applications:**
- Can crushing machines
- Doors opening and closing
- Speed detection
- Conveyors
- Part counting

**Accessories**

**Unistrut® Bracket**
- The adjustable Unistrut bracket and mounting track are especially designed for limit switch style sensors, it can be adjusted up to 20 mm along the Y axis and rotated 360° in increments of 1.87°.
- Unistrut® is a registered trademark of the Unistrut Corporation.

**Panel Meter**
- The DA5-IU-2K-V is a multi-function indicator that allows visual display of the connected analog signal. It has 2 programmable relay outputs for level detection, a scalable 5-digit display, and a 24 VDC/100 mA output supply to power the sensor.

Want more information?
Simply go to: [www.sensing.net/inductive](http://www.sensing.net/inductive)
SPECIAL SENSORS

Special Sensors

Cylindrical and Surface Mount

**Pile Driver™**

- **Cylinder Switch**
- **Inclination Sensors**
- **Position Measurement**
- **Sensors for Mobile Equipment**
- **Relay Output**
- **Extended Temperature**
- **Explosion Proof**
- **High Pressure**
- **Magnetic Sensors**

### Highlights

- "Wear-proof" 100% stainless steel housing
- 8, 12, 18, and 30 mm diameter models
- IP69K washdown rating
- Extended sensing range
- End-of-stroke verification in hydraulic and pneumatic
- Operational pressure ratings to 3000 psi
- Weld field immune
- Many standard probe lengths
- All-steel probe
- "-40°F to +185°F" operational temperature range
- Mechanical shock rating of 150 g
- Heavy cable gauge
- IP69K rated
- Switch load currents up to 6 A
- Operational temperature ratings from "-40°F to +460°F"
- Cylindrical and surface mount housing styles
- Remote amplifier models
- Operational pressure ratings to 3000 psi
- 3-wire DC and NAMUR
- 12 mm diameter models
- Pressure ratings to 7000 psi
- Capable of detection through aluminum
- Cylindrical and surface mount housings

### NAMUR (Intrinsically Safe)

<table>
<thead>
<tr>
<th>2-Wire DC</th>
<th>3-Wire DC</th>
<th>4-Wire DC</th>
<th>2-Wire AC</th>
<th>4-Wire AC</th>
<th>2-Wire AC/DC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

### Electrical Connection

- Cabled, micro, mini
- Micro, mini
- Cabled, micro
- Cabled, Deutsch 4-pin
- Cabled, mini, terminal connection
- Cabled, micro, terminal connection
- Cabled
- Cabled
- Cabled, micro

### Relay Output

- AS-Interface Compatible

### Typical Applications:

- Indexing
- Missing parts detection
- Edge guide control
- Wire breakage control
- Broken tool detection
- Valve detection

### Accessories

- **LED 18 mm Indicator Lights**
  - This indicator light provides ultra-bright status indication for almost any industrial application. Available in red, yellow, or green (or all three combined), these indicators feature an IP67, nickel-plated brass housing for harsh-duty applications.

- **Exchanger Brackets**
  - Change your cylindrical sensor in seconds without losing the original position of the sensor. Just slide in the replacement sensor, tighten the nut, and the sensor retains its precise location.

### Want more information?

**Simply go to:** [www.sensing.net/inductive](http://www.sensing.net/inductive)
## Counters, Timers, and Controls

<table>
<thead>
<tr>
<th>Batch Controller</th>
<th>Batch Controller</th>
<th>Batch Controller</th>
<th>Meter Display</th>
<th>Hour/Pulse Count</th>
<th>Temperature Display</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td><strong>Functions</strong></td>
<td><strong>Outputs</strong></td>
<td><strong>Size</strong></td>
<td><strong>Features</strong></td>
<td><strong>Display</strong></td>
</tr>
<tr>
<td>KC</td>
<td>Counter/Timer/Rate</td>
<td>Relay or transistor</td>
<td>48 x 48 mm</td>
<td>Presets, counting,</td>
<td>LED, LCD</td>
</tr>
<tr>
<td>KC</td>
<td>Counter/Timer/Rate</td>
<td>Relay or transistor</td>
<td>48 x 96 mm</td>
<td>add, subtract</td>
<td></td>
</tr>
<tr>
<td>KCT</td>
<td>Counter/Timer/Rate</td>
<td>Transistor</td>
<td>24 x 46 mm</td>
<td>Linearization</td>
<td></td>
</tr>
<tr>
<td>DAS</td>
<td>Voltage or 4-20 mA display</td>
<td>Relay</td>
<td>28 x 48 mm, 48 x 96 mm</td>
<td>Thermocouple inputs, control functions, 0.1° resolution</td>
<td></td>
</tr>
<tr>
<td>KH</td>
<td>Preset/reset value</td>
<td>Transistor</td>
<td>24 x 48 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KT</td>
<td>Temperature display</td>
<td>Display or relay</td>
<td>28 x 48 mm, 48 x 96 mm</td>
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### Amplifiers and Controls

<table>
<thead>
<tr>
<th>Sensor Signal Converters</th>
<th>Sensor Signal Converters</th>
<th>Isolated Switch Amplifier</th>
<th>Standstill Monitor</th>
<th>Speed Monitor</th>
<th>Frequency Converter</th>
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<tr>
<td><strong>Series</strong></td>
<td><strong>Type</strong></td>
<td><strong>Functions</strong></td>
<td><strong>Outputs</strong></td>
<td><strong>Mounting</strong></td>
<td><strong>Features</strong></td>
</tr>
<tr>
<td>KCC02</td>
<td>E</td>
<td>3-wire to relay</td>
<td>Relay or transistor</td>
<td>DIN rail</td>
<td>Isolated inputs, universal power input</td>
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<tr>
<td>KCC02</td>
<td>R</td>
<td>3-wire to relay</td>
<td>DIN rail</td>
<td>DIN rail</td>
<td></td>
</tr>
<tr>
<td>KFA6</td>
<td>SR2</td>
<td>Dual 3-wire sensor inputs</td>
<td>Relay</td>
<td>DIN rail</td>
<td></td>
</tr>
<tr>
<td>KFO3</td>
<td>DW</td>
<td>Sensor supply</td>
<td>DIN rail</td>
<td>DIN rail</td>
<td></td>
</tr>
<tr>
<td>KFU8</td>
<td>FSSP, UFT</td>
<td>Frequency to voltage/current</td>
<td>DIN rail</td>
<td>DIN rail</td>
<td></td>
</tr>
</tbody>
</table>

### Sensor Accessories

- **Teflon Protective Cover**
  - PTFE cap
  - Protects against impact and weld spatter
  - For all 12, 18 and 30 mm diameter sensors
- **Die-Cast Mounting Bracket**
  - Cylindrical sensor mount
  - 1/2” rod clamping style
  - For all 12, 18 and 30 mm diameter sensors
- **Universal Mounting Bracket**
  - Holds all cylindrical sensors
  - 360° rotational positioning in both x & y axis
  - For all 12, 18 and 30 mm diameter sensors
- **Adjustable Mounting Bracket**
  - Holds fiber optic cables
  - Diameter size available for 4 mm to 30 mm
  - Easy sensor mounting with one lever
  - Slip shoulder maintains sensing gap
  - For all 12, 18 and 30 mm diameter sensors
- **Snap Lever Bracket**
  - Stainless steel construction
  - Spring-loaded bracket absorbs impacts
  - Easy installation
  - For all 12, 18 and 30 mm diameter sensors
- **Right Angle Brackets**
  - Converts metric-threaded sensors to 1/2” NPT thread
  - For all 12, 18, and 30 mm diameter sensors
- **Conduit Adapters**
  - Easily remove and install sensors without readjustments
  - Spring-loaded bracket absorbs impacts
  - For all 12, 18, and 30 mm diameter sensors
- **Exchanger Brackets**
  - Tests inductive, capacitive, ultrasonic & photoelectric sensors
  - Small handheld size
  - Models available for DC, AC and AC/DC types
  - Slip shoulder maintains sensing gap
  - For all 12, 18, and 30 mm diameter sensors
- **Sensor Testers**
  - For 30 mm capacitive sensors
  - Adhesion sensor for sight glass for level monitor
  - Accommodates glass or plastic 5.5 to 38 mm diameter tubes
- **Sight Glass Mounts**
  - For 8 mm shielded inductive sensors
  - Spring-loaded piston triggers sensor
  - Available in 25 and 50 mm lengths
- **End Stop Adapters**
  - For all limit switch style sensors
  - Secure sensor to standard Unistrut® Rail
  - Can be rotated 360° in 1.87° increments
- **Unistrut Brackets**
  - Capactitive models keep tanks sealed if sensor is removed
  - Made of durable Teflon® or Delrin® material
- **Mounting Flanges**
  - Teflon® or Delrin® material
  - Ultrasonic unit has thru-hole

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