THE PULSE OF AUTOMATION

THREE NEW ULTRASONIC MODELS: F77, 30GM70, 30GM-IO
The pulse of automation

The latest generation of ultrasonic sensors from Pepperl+Fuchs provides advantages such as an optimized dead band and simple, intuitive installation. Three new sensor families cover the complete application spectrum.

The compact F77 sensors provide best-in-class immunity to acoustic interference and are designed for space-restrictive installations. UC...30GM70 sensors feature a detachable infrared interface for easy software configuration. The UC...30GM...IO sensors are easily configured via pushbutton or IO-Link, and solve a wide range of applications.

Backed by decades of experience and technical leadership, Pepperl+Fuchs leads the industry in innovation, reliability, and product diversity.

F77 miniature sensor – Designed for space-restricted installation conditions

The new generation of miniature ultrasonic sensors has arrived. F77 Series sensors can accurately detect to the millimeter objects made of materials that are typically difficult to detect. The F77 miniature Series is available in three common versions: as a background suppression sensor, a retroreflective sensor, or as a thru-beam sensor with a large detection area.

- High immunity to compensation and ambient noise
- Extremely small blind zone (10 mm) for space-restricted installation conditions
- Reliable detection of transparent objects
- Easy installation and adjustment
- Color indication – alternative to hardwired suppression photoelectric sensors
- Excellent price-performance ratio

### MAIN FEATURES

<table>
<thead>
<tr>
<th>Model number</th>
<th>Sensing range</th>
<th>Dimensions (mm)</th>
<th>Switching output</th>
<th>Setting input</th>
</tr>
</thead>
<tbody>
<tr>
<td>UB250-F77</td>
<td>250 mm</td>
<td>31 mm x 23 mm x 12 mm</td>
<td>1NC / 1NO Frequency-based Teach-in input</td>
<td></td>
</tr>
<tr>
<td>UB400-F77</td>
<td>400 mm</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>UBR250-F77</td>
<td>250 mm</td>
<td></td>
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<td></td>
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<tr>
<td>UBE800-F77</td>
<td>800 mm</td>
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### MAIN FEATURES

- High immunity to compensation and ambient noise
- Extremely small blind zone (10 mm) for space-restricted installation conditions
- Reliable detection of transparent objects
- Easy installation and adjustment
- Color indication – alternative to hardwired suppression photoelectric sensors
- Excellent price-performance ratio
30GM70 –
The right sensor version for every application

The new 30GM70 ultrasonic sensors solve the issues involved in real time, free of any interruption. As a result, these sensors can be configured and flexibly used for particularly challenging applications.

**Main Features**
- Many different housings and sensing ranges
- Always the right sensor, can be used immediately without parameterizing
- Sensors with multiple output options

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Sensing Range</th>
<th>Dimensions</th>
<th>Switching Output</th>
<th>Interface</th>
<th>Setting</th>
</tr>
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<tbody>
<tr>
<td>UC500-30GM70</td>
<td>500 mm ø 30 mm x 100/110/130 mm</td>
<td>2NO / NC</td>
<td>■ Infrared UltraProg-IR</td>
<td></td>
<td></td>
</tr>
<tr>
<td>UC2000-30GM70</td>
<td>2000 mm</td>
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<tr>
<td>UC3500-30GM70</td>
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- Adjustable with or without target presence
- Optimum adoption to user application without interrupting processes
- Simple alignment
- Teach-in function for precise adjustment
- Simple controller integration
- Sensor intelligence ignores acoustically reflective peripheral objects

30GM-IO –
A single sensor, A thousand solutions

Using 30GM-IO ultrasonic sensors can significantly reduce the volume of your inventory. Whether for fill level measurement, presence monitoring, or counting objects – ONE sensor solves a wide range of different applications. The sensor can be parameterized using buttons or via an IO-Link interface.

### Main Features
- Flexible parameterization using pushbuttons or via IO-Link
- Simple on-site parameterization, using configuration and without requiring software, reduces your inventory
- Bidirectional communication
- Automatic detection of different object sizes via IO-Link

**Specifications**
- UC500-30GM-…-IO
  - Sensing range: 500 mm
  - Dimensions: ø 30 mm x 90 mm
  - Switching output: 1NC / 1NO, 1 push-pull
  - Analog output: 2NC / 2NO, 2 push-pull
  - Interface: IO-Link

- UC2000-30GM-…-IO
  - Sensing range: 2000 mm

- UC4000-30GM-…-IO
  - Sensing range: 4000 mm

- UC6000-30GM-…-IO
  - Sensing range: 6000 mm

- Sensing parameters are adjustable on the fly, without interrupting the control outputs
### 30GM-IO – A single sensor, A thousand solutions

Using 30GM-IO ultrasonic sensors can significantly reduce the volume of your inventory. Whether for fill level measurement, presence monitoring, or counting objects – ONE sensor solves a wide range of different applications. The sensor can be parameterized using buttons or via an IO-Link interface.

### MAIN FEATURES
- Flexible parameterization using pushbuttons or via IO-Link
- Simple on-site parameterization, using pushbuttons and without requiring software, reduces your inventory
- Setting different beam widths (wide/narrow) using the Teach-in function
- Simple integration in the controller via IO-Link
- Automatic detection of different object sizes via IO-Link

### Model numbers

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<tr>
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### 30GM70 – The right sensor version for every application

The new 30GM70 ultrasonic sensors analyze the echoes received in real time, free of any interruption. As a result, these sensors can be configured and flexibly used for a particularly challenging applications.

### MAIN FEATURES
- Many different housings and sensing ranges
- Always the right sensor, can be used immediately without parameterizing
- Sensors with multiple output options
- Adjustable with or without target presence
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### Parametrization via infrared interface

Sensor intelligence ignores acoustically reflective peripheral objects.

### Parametrization via IO-Link interface

Simple parameterization using pushbuttons or via IO-Link.
YOUR APPLICATION. OUR CHALLENGE.

PROCESS INTERFACES

- Intrinsically safe barriers
- Signal conditioners
- Fieldbus infrastructure
- Remote I/O systems
- HART interface solutions
- Level measurement
- Purge and pressurization systems
- Industrial monitors and HMI solutions
- Explosion protection equipment
- Wireless solutions
- Solutions for process interfaces

INDUSTRIAL SENSORS

- Proximity sensors
- Photoelectric sensors
- Industrial vision
- Ultrasonic sensors
- Rotary encoders
- Positioning systems
- Inclination and acceleration sensors
- AS-Interface
- Identification systems
- Logic control units

www.pepperl-fuchs.com