



ULTRASONICS XL

**DIVERSITY FROM THE
TECHNOLOGY LEADER IN
ULTRASONIC SENSORS**



F65 SERIES FOR SMALL CONTAINER FILL LEVEL MEASUREMENT

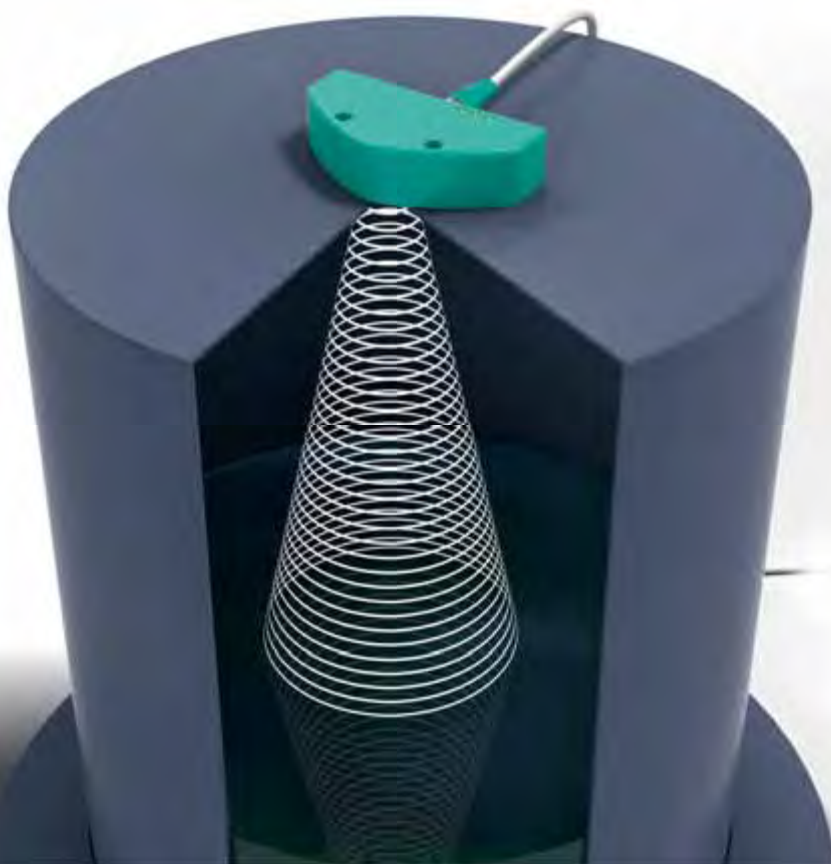
Self-contained F65 ultrasonic sensors are ready-to-connect complete devices. With their low-profile housing, they are particularly suited for small container fill level applications. The ultrasonic transducer is slightly recessed in the housing for protection. The F65 has an integrated gasket that enables an airtight seal when placed over an opening in the container.

The devices have two fully adjustable switching outputs (S min and S max), each of which can be assigned a range. This allows the minimum and maximum level in a tank to be measured. The values are set on the 3RX4000-PF programming unit using the SONPROG software package or a potentiometer.

Sensing range	Model number	Switching outputs	Analog output
500 mm	UC500-F65-E8R2-V15	2 NO contacts	–
	UC500-F65-IE2R2-V15	1 NO contact	4 mA ... 20 mA
	UC500-F65-UE2R2-V15	1 NO contact	0 V ... 10 V
	UC500-F65-FE2R2-V15	1 NO contact	Frequency
1500 mm	UC1500-F65-E8R2-V15	2 NO contacts	–
	UC1500-F65-IE2R2-V15	1 NO contact	4 mA ... 20 mA
	UC1500-F65-UE2R2-V15	1 NO contact	0 V ... 10 V
	UC1500-F65-FE2R2-V15	1 NO contact	Frequency
2500 mm	UC2500-F65-E8R2-V15	2 NO contacts	–
	UC2500-F65-IE2R2-V15	1 NO contact	4 mA ... 20 mA
	UC2500-F65-UE2R2-V15	1 NO contact	0 V ... 10 V
	UC2500-F65-FE2R2-V15	1 NO contact	Frequency

HIGHLIGHTS

- Simple to program using SONPROG
- Ultrasonic transducer is recessed in the housing for protection
- Housing design and features are optimized for tank mounting



THE 3RX4000-PF PROGRAMMING UNIT AND SONPROG

With the 3RX4000 PC interface and the SONPROG software, you can easily adapt the F65 and F260 ultrasonic sensors to the requirements of your specific application.



Included with delivery:

- PC interface
- Plug-in power supply
- Connecting cables to PC and sensor
- SONPROG for Windows

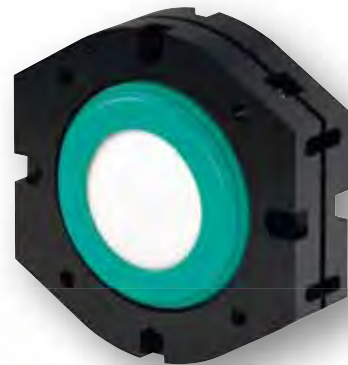
F260 FOR LONG SENSING RANGES

The F260 ultrasonic sensor has a diameter of 160 mm and a sensing range of 10 m, making it especially suitable for use in harsh environments. It is the sensor of choice for collision protection and height tracking on cranes. Wind and weather pose no problems. Each unit has both dual switch points and an analog output. Sensing limits are configured using a potentiometer or the SONPROG programming unit.

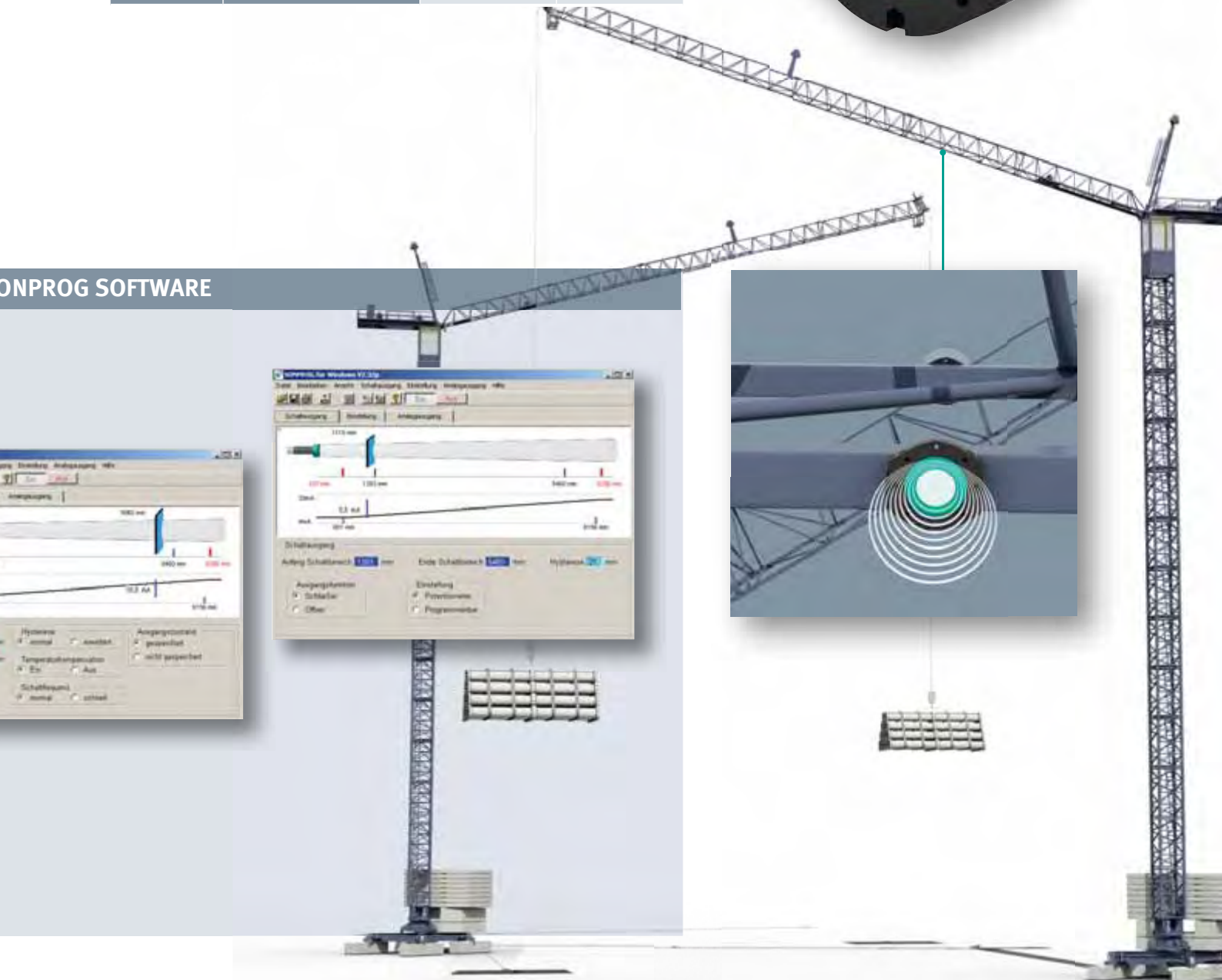
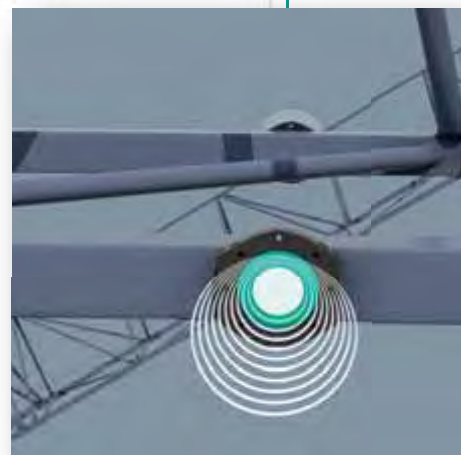
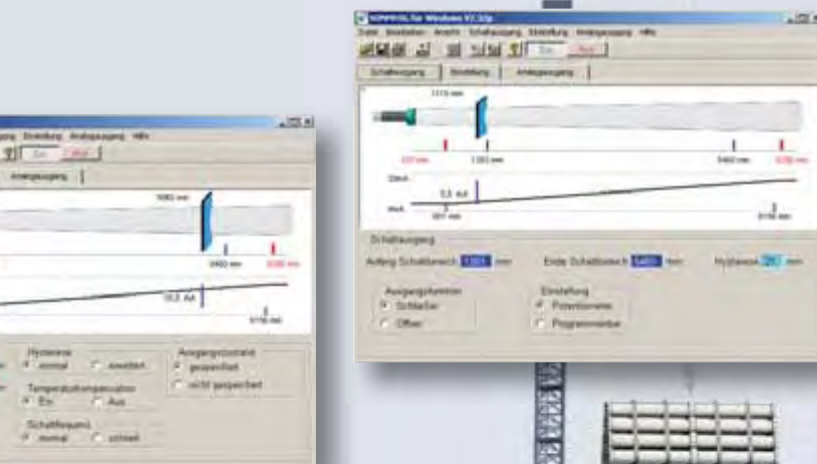
HIGHLIGHTS

- Potentiometer adjustability
- Simple to program using SONPROG
- Long sensing range, 10 m
- Robust housing
- Each unit has both dual switch points and an analog output

Sensing range	Model number	Switching outputs	Analog output
10 m	UC10000-F260-IE8R2	2 NO contacts	4 mA ... 20 mA
	UC10000-F260-IE9R2	2 NC contacts	4 mA ... 20 mA
	UC10000-F260-UE8R2	2 NO contacts	0 V ... 10 V
	UC10000-F260-UE9R2	2 NC contacts	0 V ... 10 V



SONPROG SOFTWARE



M18-IO WITH IO-LINK INTERFACE

The M18-IO ultrasonic sensor with IO-Link can detect a wide range of objects with millimeter resolution. Insensitive to color variation.

The bidirectional IO-Link interface provides the distance information as a numerical value with no complicated analog transmission. In return, the sensor can be configured directly from the controller. The IO-Link interface transfers additional diagnostic information from the sensor to the controller.

The connection between the ultrasonic sensor and the IO-Link master is made using a standard M12 connection cable. Once configured, if the ultrasonic sensor is connected to a standard IO device, it functions as a traditional sensor output.

HIGHLIGHTS

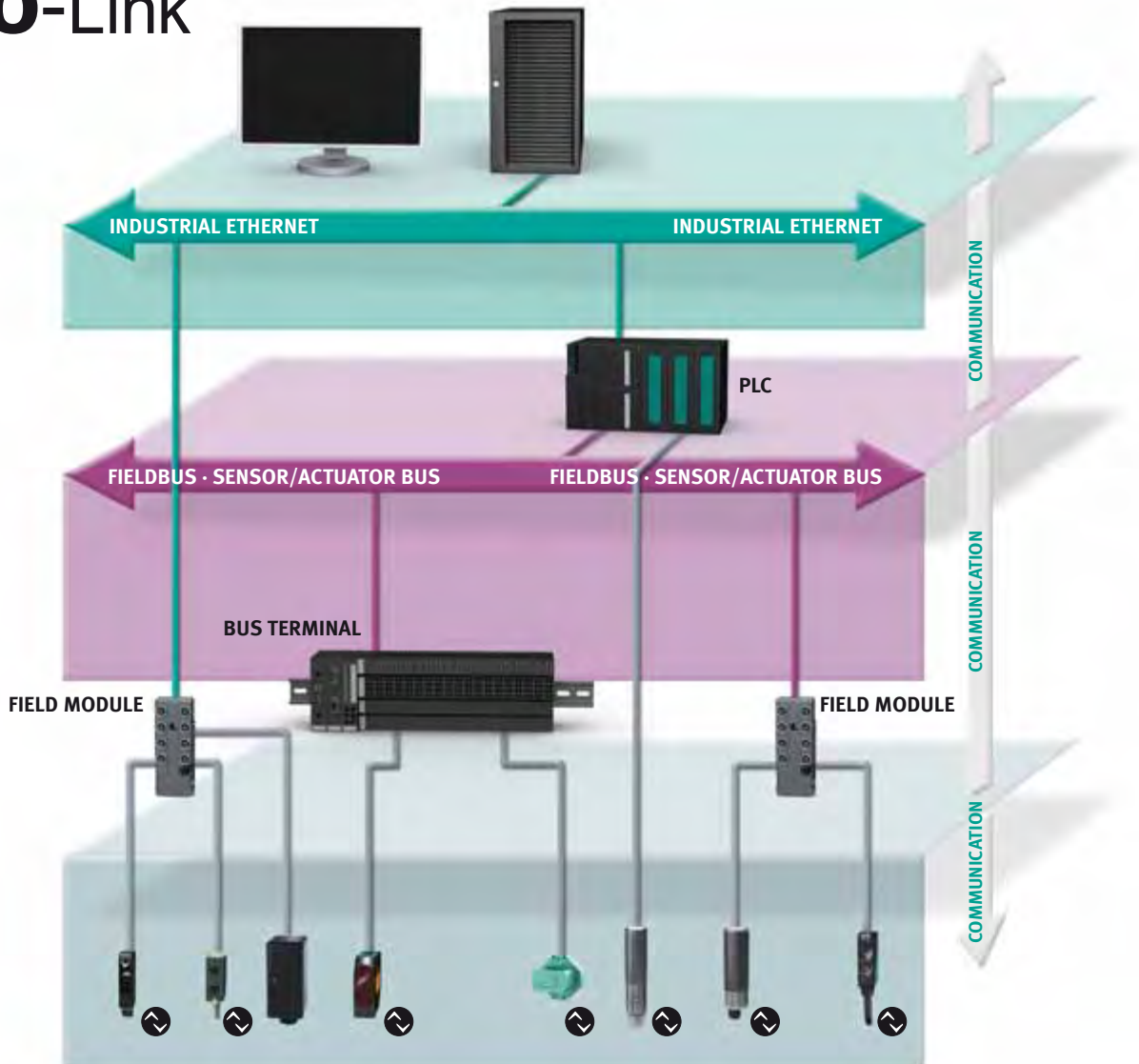
- Compact M18 housing
- Minimal deadband area
- Long sensing range, up to 100 cm
- Simple connection using M12 cordsets
- Supports COM and SIO mode in accordance with the IO-Link specification
- Positional and switch feedback



UC1000-18GM90-E2-IO-V1

UC1000-18GM90A-E2-IO-V1

IO-Link





A FULL SELECTION OF PRODUCTS FROM THE LEADER IN ULTRASONIC SENSING TECHNOLOGY



Pepperl+Fuchs extends its expertise in the field of ultrasonic sensors.
New in the Pepperl+Fuchs portfolio:

- F65 series for small container fill level measurement
- F260 sensor for long sensing ranges
- M18 IO ultrasonic sensor with IO-Link interface
- 3RX4000-PF programming unit and SONPROG software for simple programming

ULTRASONICS XL – DIVERSITY FROM THE TECHNOLOGY LEADER IN ULTRASONIC SENSORS

- Technology XL: Ultrasonic Center of Expertise with in-house transducer development and production
- Portfolio XL: Largest ultrasonic sensor portfolio for factory automation
- Experience XL: TOP team of innovative and experienced sensor specialists
- Innovation XL: unique and diverse customer solutions

There is a wide range of applications that require ultrasonic technology. Therefore, we are working on solutions with an experienced engineering development team. We look forward to finding the right solution for you!

FACTORY AUTOMATION – SENSING YOUR NEEDS



Pepperl+Fuchs sets the standard in quality and innovative technology for the world of automation. Our expertise, dedication, and heritage of innovation have driven us to develop the largest and most versatile line of industrial sensor technologies and interface components in the world. With our global presence, reliable service, and flexible production facilities, Pepperl+Fuchs delivers complete solutions for your automation requirements – wherever you need us.

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