Sensors and Systems

Edition 3.0

Your automation, our passion.

PEPPERL+FUCHS

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	MH-UDB01
Material	Stainless steel
Description	Rotatable mounting bracket with angle scale for ultrasonic double sheet control.

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	M-105
Material	PTFE
Description	Universal mounting bracket for cylindrical sensors with ø 30 mm and a thread that extends to the front end of the sensor (UB/UC300, -500, and -2000).

■ **Secure fastening**
■ **Easy installation**
■ **Robust design**
■ **Resistant to chemicals**

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	PA-02
Material	PVC
Description	Mounting flange for all square-shaped sensors in the FP series

■ **Secure fastening**
■ **Easy installation**
■ **Robust design**

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Common data	
Material	PA
Description	Plastic nuts with centering ring for vibration-free mounting of cylindrical sensors. These plastic nuts must be used in applications where a sensor is affixed at the front third of the housing, and operated at temperatures < 0 °C.

Model number		M12K-VE	M18K-VE	M30K-VE
For sensor diameter	12 mm	●		
	18 mm		●	
	30 mm			●

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Ultrasonic Sensors, Ultrasonic Sensor Accessories

Issue date:26.08.2014

Consider the General Notes on the Information in the Pepperl+Fuchs Product Catalogs

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Ultraschallsensoren, Ultrasonic Sensor Accessories

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Common data

Material	PMMA
Description	Ultrasonic deviation reflector for cylindrical ultrasonic sensors. The ultrasonic deviation reflector has an opening across the entire width at the lower end of the inclined position. Any falling dust particles cannot collect in the ultrasonic deviation reflector. This ensures ongoing operation even in dusty environments.

Model number		UVW90-K18	UVW90-K30
For sensors from the series	-18GM	●	
	-30GM		●

■ **Clamp mounting**

■ **90° sound deflection for difficult mounting conditions**

■ **Universal mounting position**

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Model number	UVW90-M12
Material	Stainless steel
Description	Ultrasonic deviation reflector for cylindrical ultrasonic sensors in the -12GM Series.

■ **Suitable for universal mounting**

■ **90° sound deflection for difficult mounting conditions**

■ **Universal mounting position**

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Model number	UVW90-M30
Material	Stainless steel
Description	Focusing ultrasonic deviation reflector for cylindrical ultrasonic sensors in the -30GM series.

■ **Suitable for universal mounting**

■ **90° sound deflection for difficult mounting conditions**

■ **Universal mounting position**

■ **Ultrasonic focusing effect**

■ **Increase in detection range (through focus)**
   - approx. 40% with UB/UC500 (measurement L = 10 mm)
   - approx. 20% with UB/UC2000 (measurement L = 35 mm +/- 5 mm)

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Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	UC-30GM-TEMP
Function	External temperature probe
Description	As an alternative to the supplied temperature probe, the UC-30GM-TEMP external temperature probe can be connected to LUC4T-type ultrasonic sensors. The UC-30GM-TEMP temperature probe can be used to detect the ambient temperature of the measurement path, irrespective of the sensor mounting conditions, with a view to minimizing temperature effects to the greatest extent possible.

- **For LUC4T-type ultrasonic sensors**
- **8 mm connector**
- **Swivel-free single-hole mounting**

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Common data

Function	External temperature probe
Description	As an alternative to the supplied temperature probe, this external temperature probe can be connected to LUC4T-type ultrasonic sensors. The LUC4-Z30 sensor can be used to detect the ambient temperature of the measurement path, in line with the process and irrespective of the mounting conditions of the sensor, with a view to minimizing temperature effects to the greatest extent possible.

- **For LUC4T-type ultrasonic fill level sensors**
- **8 mm connector.**
- **Single-hole mounting in thread: G½A (LUC4-Z30-G2V) ½NPT (LUC4-Z30-N2V).**

Model number		LUC4-Z30-G2V	LUC4-Z30-N2V
Thread	G½A	●	
	½NPT		●

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	USB-0.8M-PVC ABG-SUBD9
Function	USB/RS232 interface adapter
Description	Interface adapter USB-0.8M-PVC ABG-SUBD9 provides an RS232 interface at a free USB port. It can be connected to a free USB port on the computer either directly or using the 800 mm USB extension cable provided. The available interface cable can then be connected to the 9-pin SUB-D plug in the usual way.

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Ultraschallsensoren, Ultrasonic Sensor Accessories

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Model number	**UC-F43-R2**
Function	RS232 interface
Description	The device can be switched between the V17 cable connection box and the V17 plug connection at the sensor for the Teach-in process. The parameterized functions are retained after the programming unit has been removed and/or the operating voltage has been turned off at the sensor.

■ **For sensors UC300-F43-2KIR2-V17 and UC2000-F43-2KIR2-V17.**

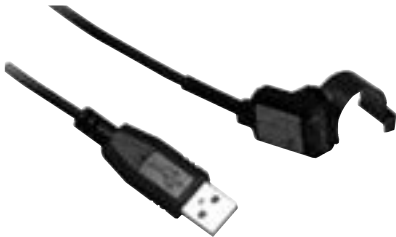■ **Simple intermediate switching in the sensor connection line.**

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Model number	**UC-30GM-R2**
Function	Interface cable
Description	Interface cable UC-30GM-R2 enables type UC...-30GM-..R2-V15 ultrasonic sensors to be parameterized using service program ULTRA 2001. The cable establishes a connection between the PC's internal RS232 interface and the connector of the temperature/programming plug at the sensor.

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Model number	**UC-18/30GM-IR**
Function	Interface cable

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Model number	**UC-30GM-PROG**
Function	Extension cable
Description	Extension cable UC-30GM-PROG enables UC...-30GM-... and LUC-type ultrasonic sensors to be taught in, even at installation locations that are difficult to access. The sensor end of the extension cable is connected to the socket for the temperature plug at the sensor. Sensors can be programmed at the other end of the cable using the temperature plug.

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

Common data	
Connectors	M8 x 1, male connector, 3-pin and M8 x 1, female connector, 3-pin
Cable material	PUR
Cable color	black
Description	Extension cable for ultrasonic double sheet monitors

Model number		UDB-Cable-1M	UDB-Cable-2M
Cable length	1 m	●	
	2 m		●

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Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	3RX4000-PF
Function	PC interface
Description	Using this PC interface and the corresponding software, you can adapt ultrasonic sensors of a specific series to the requirements of your application. It is also possible to parameterize several sensors identically. The start and end of a sensor's detection range can be stored and copied to other sensors at the press of a button.

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	UB-PROG2
Function	Programming unit
Description	The device can be switched between the V15 cable connection box and the V15 plug connection at the sensor for the Teach-in process. The trip points/measurement window and the output function are taught in using sensors A1 and A2 in accordance with the diagram provided. The taught in trip points and functions are retained after the programming unit has been removed and/or the operating voltage has been turned off at the sensor.

- ■ **Simple Teach-in of trip points A1/ A2 or the measurement window.**
- ■ **Easy selection of output function: window operation, NO contact/NC contact function. One trip point, NO contact/NC contact function. Monitoring of detection range.**

For the following types of ultrasonic sensors:

```
UB300
UB400    -12GM
UB500    -18GM40    -E4
UB800    -18GM75    -E5
UB1000   -30GM      -I        -V15
UB2000   -F42(S)    -U
UB4000   -F54
UB6000
```

... where the Teach-in input is at pin 2.

Technical Data

*For detailed data and product description, see the data sheet at **www.pepperl-fuchs.com***

Model number	UB-PROG3
Function	Programming unit
Description	The unit can be switched between the V15 cable connection box and the V15 plug connection at the sensor for the Teach-in process. The trip points/measurement window and the output function are taught in using sensors A1 and A2 in accordance with the diagram provided. The taught in trip points and functions are retained after the programming unit has been removed and/or the operating voltage has been turned off at the sensor.

- ■ **Simple Teach-in of trip points A1/ A2 or the measurement window.**
- ■ **Easy selection of output function: window operation, NO contact/NC contact function. One trip point, NO contact/NC contact function. Monitoring of detection range.**

For the following types of ultrasonic sensors:

```
                    -E01
UB500               -E23
UB1000   -18GM75    -E6        -V15
                    -E7
```

... where the Teach-in input is at pin 2.

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