

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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USA: +1 330 486 0001 fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 4411

fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091 fa-info@sg.pepperl-fuchs.com

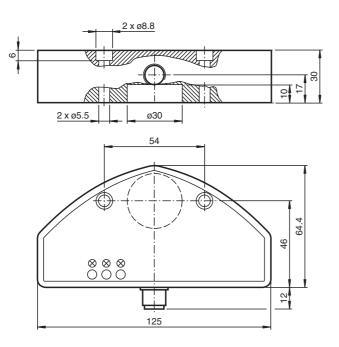




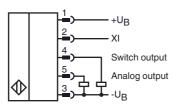
UC500-F65-IE2R2-V15-Y235144

epoxy resin/hollow glass sphere mixture; polyurethane foam

Dimensions



Electrical Connection



Pinout



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
2	WH	(white)
3	BU	(blue)
4	BK	(black)
5	GY	(gray)

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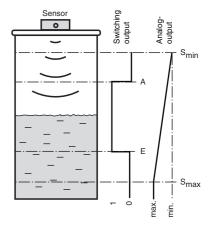
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Function of the outputs



Accessories

V15-G-2M-PUR

Female cordset, M12, 5-pin, PUR cable V15-G-2M-PVC

Female cordset, M12, 5-pin, PVC cable

V15-W-2M-PUR Female cordset, M12, 5-pin, PUR cable

V15-W-2M-PVC

Female cordset, M12, 5-pin, PVC cable

3RX4000-PF PC interface

Application ranges

The design and function of this ultrasonic sensor make it ideal for filling level applications in small containers. The device has a switch output and an analogue output. With the switch output, a specific filling level in a tank can be signalled directly. The analogue output represents the current level as an analogue output variable.

Assembly and connection

All components are contained in an encapsulated housing. The ultrasonic converter is in a slightly recessed position in the housing. The integrated circumferential seal allows the sensor to be used directly as a closure with integrated filling level measurement. The tank opening must have a diameter of 26 mm. It can be mounted on the tank using 2 M5 screws. The electrical connection is based on a 5-pin device connector, M12 x 1. The connections are protected against reverse polarity, short circuits and overloads. Shielded cables are recommended if there is electrical interference.

Setting

As delivered, the switch-on and switch-off point, the measuring range limits and the averaging are fixed (see Technical data). They can subsequently be adapted to the application via SONPROG using the interface (see Accessories).

SONPROG

The following parameters can be changed via SONPROG:

- Measuring range limits S_{min} and S_{max}
- Switch-on and switch-off points (A, E)
- Blind zone
- Averaging

Special programming options are available on request.

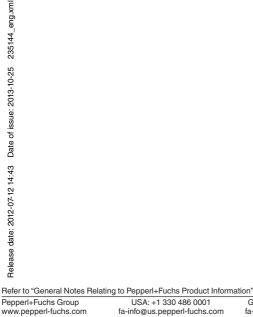
Operation

The filling level of a container is detected within the detection range. When the filling level reaches the switch-on or switch-off point (E or A), the switch output reacts according to its setting. The switching statuses of the switch output are signalled by the yellow LEDs. If the level is between the switching points A and E, the output is active. Filling levels between the measuring range limits (S_{min} , S_{max}) are displayed in the form of an analogue output signal at the analogue output. The analogue output delivers its minimum value at filling level S_{min} and its maximum value at filling level S_{max} . The characteristic between the two measuring range limits is linear.

Objects in the blind zone cause cause false signals. Install in such a way that the filling level cannot enter the blind zone.

Function input XI

The sensor is placed in standby mode by connecting a low level at the function input XI (blocked release). The sensors then performs no measurements. The outputs retain the most recent status. As soon as function input XI is disconnected from the low level or a high level is connected (release), the sensor resumes its normal function. The function input XI can be used during operation for the synchronisation of multiple sensors. This can be done by connecting external signals, e.g. from a controller (external synchronisation) or by simply connecting the function inputs of all sensors to be synchronised (internal synchronisation).



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