Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Operating voltage	12 ... 30 V (including ripple) In supply voltage interval 12 ... 20 V reduced sensitivity by 20% ... 0%
No-load supply current	≤ 60 mA
Output type	2 switch outputs PNP, NO
Rated operational current	150 mA , short-circuit/overload protected
Input type	1 program input Teach-In of S_{min}
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65
Connection type	Device connector M12 x 1 , 5-pin

Properties

■ Up to 2500 mm sensing range

■ DC, 2 switching outputs and programming interface

■ Level measurement optimized F65 housing

■ Connector version

Your Benefit

■ SONPROG programmable sensing limits and filtering

■ Ultra-low 30 mm mounting height

■ Gasketed transducer seals the tank/container

Model Number		UC500-F65-E8R2-V15	UC1500-F65-E8R2-V15	UC2500-F65-E8R2-V15
Sensing range	60 ... 500 mm	●		
	200 ... 1500 mm		●	
	250 ... 2500 mm			●
Transducer frequency	approx. 300 kHz	●		
	approx. 200 kHz		●	
	approx. 120 kHz			●
Approvals and Certificates				
UL approval	cULus Listed, General Purpose	●	●	●
CSA approval	cCSAus Listed, General Purpose	●	●	●

Dimensions

Length L [mm]	64,4
Width W [mm]	125
Height H [mm]	30
Connector area I_c [mm]	12

Accessories

This and more accessories can be found in chapter 3.5 from page 673
See pages from 972 ... for cordsets   See pages 1068 ... for mounting aids

V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-G-2M-PVC	Cable socket, M12, 5-pin, PVC cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PVC	Cable socket, M12, 5-pin, PVC cable
3RX4000-PF	PC interface

Electrical Connection

UC500-F65-E8R2-V15
UC1500-F65-E8R2-V15
UC2500-F65-E8R2-V15

1   + U_B
2   XI
4   Q1 (S_{min})
5   Q2 (Smax)
3   - U_B
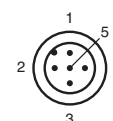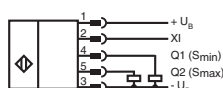
Wire colors in accordance with EN 60947-5-2

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

Technical Data

For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

General Data

Operating voltage	15 ... 30 V (including ripple) In supply voltage interval 15 ... 20 V reduced sensitivity by 20% ... 0%
No-load supply current	≤ 60 mA
Output type	1 switch output PNP, NO
Operating current	≤ 300 mA , short-circuit/overload protected
Linearity error	≤ 1.5 %
Input type	1 Function input
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65
Connection type	Device connector M12 x 1 , 5-pin

CE c(UL)us c(CSA)us

Properties

- Up to 2500 mm sensing range versions
- DC, analog output, switching output and programming interface
- Level measurement optimized F65 housing
- Connector version

Your Benefit

- SONPROG programmable sensing limits and filtering
- Ultra-low 30 mm mounting height
- Gasketed transducer seals the tank/container

Model Number		UC500-F65-IE2R2-V15	UC500-F65-UE2R2-V15	UC1500-F65-IE2R2-V15	UC1500-F65-UE2R2-V15	UC2500-F65-IE2R2-V15	UC2500-F65-UE2R2-V15
Sensing range	60 ... 500 mm	●	●				
	200 ... 1500 mm			●	●		
	250 ... 2500 mm					●	●
Transducer frequency	approx. 300 kHz	●	●				
	approx. 200 kHz			●	●		
	approx. 120 kHz					●	●
Output type	1 voltage output 0 ... 10 V , rising slope		●		●		●
	1 current output 4 ... 20 mA , rising slope	●		●		●	

Approvals and Certificates

UL approval	cULus Listed, General Purpose	●	●	●	●	●	●
CSA approval	cCSAus Listed, General Purpose	●	●	●	●	●	●

Dimensions

Length L [mm]	64,4
Width W [mm]	125
Height H [mm]	30
Connector area I_c [mm]	12

Accessories

This and more accessories can be found in chapter 3.5 from page 673
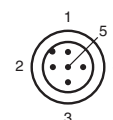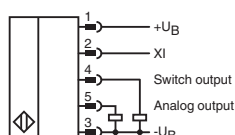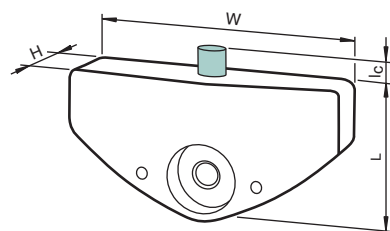See pages from 972 ... for cordsets   See pages 1068 ... for mounting aids

V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-G-2M-PVC	Cable socket, M12, 5-pin, PVC cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PVC	Cable socket, M12, 5-pin, PVC cable
3RX4000-PF	PC interface

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Ultrasonic Sensors, Diffuse Mode Sensors, *rectangular types*

Electrical Connection

UC500-F65-IE2R2-V15
UC1500-F65-IE2R2-V15
UC2500-F65-IE2R2-V15
UC500-F65-UE2R2-V15
UC1500-F65-UE2R2-V15
UC2500-F65-UE2R2-V15

1	+U$_B$
2	XI
4	Switch output
5	Analog output
3	-U$_B$

Wire colors in accordance with EN 60947-5-2

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

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

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PEPPERL+FUCHS
SENSING YOUR NEEDS

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Technical Data

*For detailed data and product description refer to the data sheets at **www.pepperl-fuchs.com***

General Data

Operating voltage	12 ... 30 V (including ripple) In supply voltage interval 12 ... 20 V reduced sensitivity by 20% ... 0%
No-load supply current	≤ 60 mA
Output type	1 Frequency output
Rated operational current	300 mA
Input type	1 Function input
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	PBT
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65
Connection type	Device connector M12 x 1 , 4-pin

Properties

- Up to 2500 mm sensing range versions
- DC, frequency output, switching output and programming interface
- Level measurement optimized F65 housing
- Connector version

Your Benefit

- SONPROG programmable sensing limits and filtering
- Frequency (Hz) output provides continuous feedback to discrete input controllers
- Ultra-low 30 mm mounting height
- Gasketed transducer seals the tank/container

Model Number		UC500-F65-FE2R2-V15	UC1500-F65-FE2R2-V15	UC2500-F65-FE2R2-V15
Sensing range	60 ... 500 mm	●		
	200 ... 1500 mm		●	
	250 ... 2500 mm			●
Transducer frequency	approx. 300 kHz	●		
	approx. 200 kHz		●	
	approx. 120 kHz			●
Output frequency	30 ... 250 Hz (300 ... 2500 Hz) , adjustable	●		
	20 ... 150 Hz (200 ... 1500 Hz) , adjustable		●	
	12.5 ... 125 Hz (125 ... 1250 Hz) , adjustable			●

Approvals and Certificates

UL approval	cULus Listed, General Purpose	●	●	●
CSA approval	cCSAus Listed, General Purpose	●	●	●

Dimensions

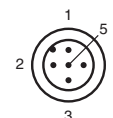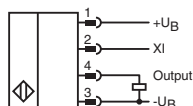|	
Length L [mm]	64,4
Width W [mm]	125
Height H [mm]	30
Connector area I_c [mm]	12

Accessories

This and more accessories can be found in chapter 3.5 from page 673
See pages from 972 ... for cordsets   See pages 1068 ... for mounting aids

V1-G-2M-PUR	Cable socket, M12, 4-pin, PUR cable
V1-G-2M-PVC	Cable socket, M12, 4-pin, PVC cable
V1-W-2M-PUR	Cable socket, M12, 4-pin, PUR cable
V1-W-2M-PVC	Cable socket, M12, 4-pin, PVC cable
3RX4000-PF	PC interface

Electrical Connection

UC500-F65-FE2R2-V15
UC1500-F65-FE2R2-V15
UC2500-F65-FE2R2-V15

1   +U_B
2   XI
4   Output
3   -U_B

Wire colors in accordance with EN 60947-5-2

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

Date of issue: 04/08/2015

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PEPPERL+FUCHS
SENSING YOUR NEEDS

Ultrasonic Sensors, Diffuse Mode Sensors, *rectangular types*

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