



## Technical Data

For detailed data and product description refer to the data sheets at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

### General Data

Operating voltage	10 ... 30 V DC, ripple 10 %ss
Power consumption	≤ 900 mW
Interface type	RS 232, 9600 Bit/s, no parity, 8 data bits, 1 stop bit
Output type	1 current output 4 ... 20 mA 1 voltage output 0 ... 10 V
Deviation of the characteristic curve	≤ 0.2 % of full-scale value
Synchronization	bi-directional
Material	
Housing	stainless steel (1.4305 / AISI 303), PBT plastic parts
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65
Connection type	Device connector M12 x 1, 5-pin

## Properties

- Up to 6000 mm sensing range versions
- DC, analog outputs
- Ø30 mm cylindrical housing
- Connector version

## Your Benefit

- Potentiometer-free configuration via programming plug or ULTRA3000 software

## Further Products

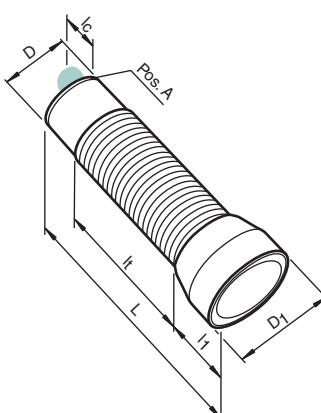
In this series, we offer additionally:

**UCC1000-30GM-IUR2-V15**

Technical data like UC2000-30GM-IUR2-V15 but:

Sensing range: 1000 mm

Transducer: chemical resistant PTFE coated



### Model Number

UC300-30GM-IUR2-V15	UC500-30GM-IUR2-V15	UC2000-30GM-IUR2-V15	UC4000-30GM-IUR2-V15	UC6000-30GM-IUR2-V15
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Sensing range	15 ... 300 mm	●	●	●	●
	30 ... 500 mm		●		
	80 ... 2000 mm			●	
	200 ... 4000 mm				●
	350 ... 6000 mm				●
Transducer frequency	approx. 380 kHz	●			
	approx. 180 kHz		●		
	approx. 85 kHz			●	
	approx. 65 kHz				●
Resolution	evaluation range [mm]/4000, but $\geq 0.05$ mm	●	●		
	evaluation range [mm]/4000, but $\geq 0.35$ mm			●	●
Ambient temperature	0 ... 70 °C (32 ... 158 °F)	●	●	●	●
	-25 ... 70 °C (-13 ... 158 °F)		●	●	●

### Approvals and Certificates

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

### Dimensions

Length L [mm]	114	128	132
Diameter D [mm]	30		
Transducer diameter D <sub>1</sub> [mm]	30	40	73
Transducer length l <sub>1</sub> [mm]	0	25	32,5
Thread length l <sub>2</sub> [mm]	92	81	77,5
Connector area l <sub>3</sub> [mm]	10		
LED position	Pos. A		
Temperature / program plug	Pos. A, 27.5 mm		

### 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

<b>BF 30</b>	Mounting flange, 30 mm
<b>BF 30-F</b>	Mounting flange with dead stop, 30 mm
<b>BF 5-30</b>	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
<b>UC-30GM-R2</b>	Programming cable
<b>ULTRA3000</b>	Software for ultrasonic sensors, comfort line
<b>V15-G-2M-PVC</b>	Cable socket, M12, 5-pin, PVC cable
<b>V15-W-2M-PUR</b>	Cable socket, M12, 5-pin, PUR cable

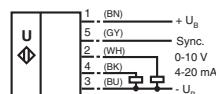
## Electrical Connection



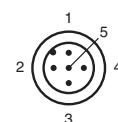
UC300-30GM-IUR2-V15  
UC500-30GM-IUR2-V15  
UC2000-30GM-IUR2-V15  
UC4000-30GM-IUR2-V15  
UC6000-30GM-IUR2-V15  
UCC1000-30GM-IUR2-V15

Standard symbol/Connection:

(version IU)



Core colors in accordance with EN 60947-5-2.



Wire colors in accordance with EN 60947-5-2

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

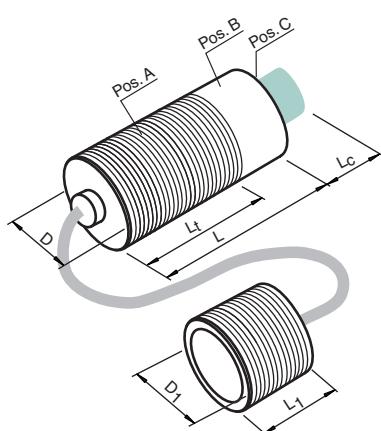


## Properties

- 300 mm and 1000 mm sensing range versions
- DC, 2 switching outputs
- Ø30 mm cylindrical housing with separate head
- Connector version

## Your Benefit

- Provides maximum sensing range in space-restricted mounting areas
- Potentiometer-free configuration via programming plug or ULTRA3000 software

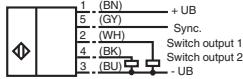


## Electrical Connection



UC300-30GM-E6R2-K-V15  
UC1000-30GM-E6R2-K-V15

Standard symbol/Connection:  
(version E6, ppn)



Core colors in accordance with EN 60947-5-2.

## Technical Data

For detailed data and product description refer to the data sheets at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

### General Data

Operating voltage	10 ... 30 V DC, ripple 10 % <sub>SS</sub>
No-load supply current	≤ 50 mA
Interface type	RS 232, 9600 Bit/s, no parity, 8 data bits, 1 stop bit
Output type	2 switch outputs PNP, NO/NC, programmable
Rated operational current	200 mA, short-circuit/overload protected
Synchronization	bi-directional
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	stainless steel (1.4305 / AISI 303), PBT plastic parts
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	sensor head: IP67 connector sensor head/controller unit: IP52
Connection type	Device connector M12 x 1, 5-pin



### Model Number

UC300-30GM-E6R2-K-V15	UC1000-30GM-E6R2-K-V15
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### Approvals and Certificates

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

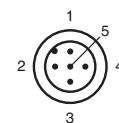
### Dimensions

Length L [mm]	93,5	112
Diameter D [mm]	30	
Transducer diameter D <sub>1</sub> [mm]	18	30
Transducer length l <sub>t</sub> [mm]	25	27
Thread length l <sub>t</sub> [mm]	71,5	90
Connector area l <sub>c</sub> [mm]	10	
LED position	Pos. C	
Temperature / program plug	Pos. C, 27,5 mm	

### 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

<b>BF 30</b>	Mounting flange, 30 mm
<b>BF 30-F</b>	Mounting flange with dead stop, 30 mm
<b>BF 18</b>	Mounting flange, 18 mm
<b>BF 5-30</b>	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
<b>BF 18-F</b>	Mounting flange with dead stop, 18 mm
<b>UC-30GM-R2</b>	Programming cable
<b>ULTRA3000</b>	Software for ultrasonic sensors, comfort line
<b>V15-G-2M-PVC</b>	Cable socket, M12, 5-pin, PVC cable
<b>V15-W-2M-PUR</b>	Cable socket, M12, 5-pin, PUR cable



Wire colors in accordance with EN 60947-5-2

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