



Technical Data

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

General Data

Operating voltage	10 ... 30 V DC , ripple 10 % _{SS}
No-load supply current	≤ 60 mA
Power consumption	≤ 1 W
Interface type	IO-Link
SIO mode support	✓
Output type	2 Push-pull outputs, short-circuit protected, reverse polarity protection
Rated operational current	200 mA , short-circuit/overload protected
Input/output type	1 synchronization connection, bidirectional
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	Stainless steel 1.4305 / AISI 303, TPU, Polyamides
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65/IP67
Connection type	Device connector M12 x 1 , 5-pin



Properties

- Up to 6000 mm sensing range versions
- DC, IO-Link and switching output
- Ø30 mm cylindrical housing
- Connector version

Your Benefit

- Simple pushbutton-based configuration
- Continuous IO-Link accessibility to output status and configuration parameters
- Optional, expanded configuration control via PACTware
- High-visibility LED indicators

Model Number

		UC500-30GM-2EP-IO-V15	UC2000-30GM-2EP-IO-V15	UC4000-30GM-2EP-IO-V15	UC6000-30GM-2EP-IO-V15
Sensing range	35 ... 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				●
Switching frequency	≤ 11 Hz	●			
	≤ 4 Hz		●		
	≤ 2 Hz			●	
	≤ 1.5 Hz				●

Approvals and Certificates

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

Dimensions

Diameter D [mm]	30		
Length L [mm]	81	86	93
Thread length l _t [mm]	54	36	
Transducer diameter D ₁ [mm]	30	40	73
Transducer length l ₁ [mm]	2	25	32
Connector area l _c [mm]	11		

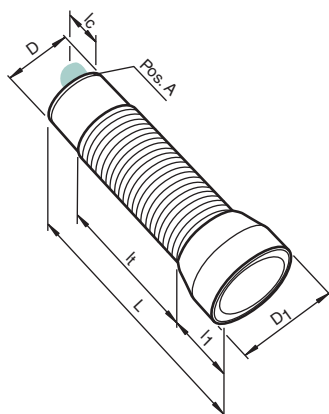
Accessories

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

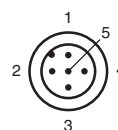
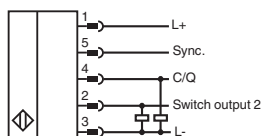
BF 30	Mounting flange, 30 mm
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
IO-Link-Master01-USB	IO-Link Master
IO-Link-Master-USB DTM	Communication DTM for use of IO-Link-Master
IODD Interpreter	Software for the integration of IODDs in a frame application (e. g. PACTware)
PACTware 4.X	FDT frame application



Electrical Connection



UC500-30GM-2EP-IO-V15
UC2000-30GM-2EP-IO-V15
UC4000-30GM-2EP-IO-V15
UC6000-30GM-2EP-IO-V15



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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General Data

Operating voltage	10 ... 30 V DC, ripple 10 % _{SS} 15 ... 30 V voltage output
No-load supply current	≤ 60 mA
Power consumption	≤ 1 W
Interface type	IO-Link
SIO mode support	✓
Output type	1 push-pull output, short-circuit protected, reverse polarity protected
Rated operational current	200 mA, short-circuit/overload protected
Analog output	Current output 4 mA ... 20 mA or voltage output 0 V ... 10 V configurable
Deviation of the characteristic curve	≤ 0.2 % of full-scale value
Input/output type	1 synchronization connection, bidirectional
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	Stainless steel 1.4305 / AISI 303, TPU, Polyamides
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65/IP67
Connection type	Device connector M12 x 1, 5-pin

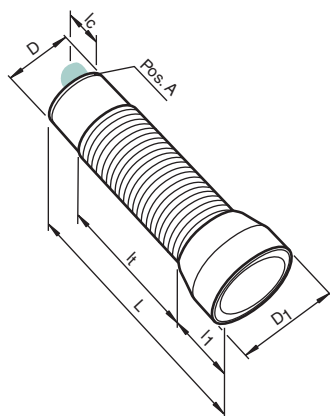


Properties

- Up to 6000 mm sensing range versions
- DC, IO-Link and analog output
- Ø30 mm cylindrical housing
- Connector version

Your Benefit

- Simple pushbutton-based configuration
- Continuous IO-Link accessibility to output status and configuration parameters
- Optional, expanded configuration control via PACTware
- High-visibility LED indicators



Model Number

	green = preferred type	UC500-30GM-IUEP-IO-V15	UC2000-30GM-IUEP-IO-V15	UC4000-30GM-IUEP-IO-V15	UC6000-30GM-IUEP-IO-V15
Sensing range	35 ... 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 ≥ 0.05 mm	●			
	evaluation range [mm]/4000, but ≥ 0.35 mm		●	●	●
Switching frequency	≤ 11 Hz	●			
	≤ 4 Hz		●		
	≤ 2 Hz			●	
	≤ 1.5 Hz				●

Approvals and Certificates

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

Dimensions

Diameter D [mm]	30
Length L [mm]	81 86 93
Thread length l _t [mm]	54 36
Transducer diameter D ₁ [mm]	30 40 73
Transducer length l ₁ [mm]	2 25 32
Connector area l _c [mm]	11

Accessories

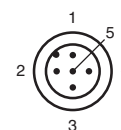
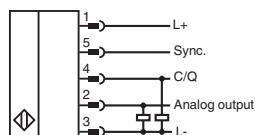
This and more accessories can be found in chapter 3.5 from page 673
See pages from 972 ... for cordsets See pages 1068 ... for mounting aids

BF 30	Mounting flange, 30 mm
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
IO-Link-Master01-USB	IO-Link Master

Electrical Connection



UC500-30GM-IUEP-IO-V15
UC2000-30GM-IUEP-IO-V15
UC4000-30GM-IUEP-IO-V15
UC6000-30GM-IUEP-IO-V15



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