



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 DC (including ripple)
No-load supply current	≤ 50 mA
Potentiometer	Switching output 1 and Switching output 2 adjustable
Interface type	Infrared
Output type	2 switch outputs PNP, NO (NC programmable)
Operating current	Per 150 mA , short-circuit/overload protected
Input/output type	1 synchronization connection, bidirectional / TEACH-IN input, programmable
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	brass, nickel-plated
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65
Connection type	Device connector M12 x 1 , 5-pin

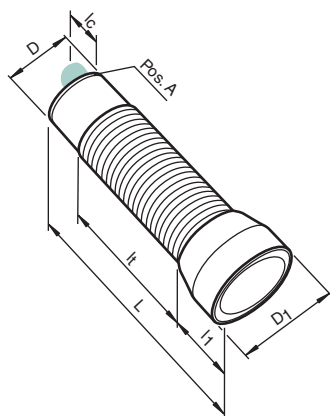


Properties

- Up to 6000 mm sensing range versions
- DC, 2 switching outputs
- Ø30 mm cylindrical housing
- Connector version

Your Benefit

- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface



Model Number

		UC500-30GM70-2E2R2-V15	UC2000-30GM70-2E2R2-V15	UC3500-30GM70-2E2R2-V15	UC6000-30GM70-2E2R2-V15
Sensing range	45 ... 500 mm	●			
	100 ... 2000 mm		●		
	200 ... 3500 mm			●	
	350 ... 6000 mm				●
Transducer frequency	approx. 300 kHz	●			
	approx. 200 kHz		●		
	approx. 120 kHz			●	
	approx. 80 kHz				●

Approvals and Certificates

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

Dimensions

Diameter D [mm]	30
Length L [mm]	99,3
Thread length l_1 [mm]	74,7
Transducer diameter D_1 [mm]	30
Transducer length l_1 [mm]	0,3
Connector area l_c [mm]	10,5

Accessories

This and more accessories can be found in chapter 3.5 from page 673

See pages from 972 ... for cordsets

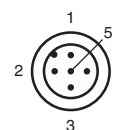
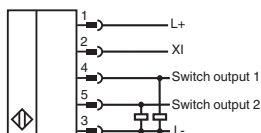
See pages 1068 ... for mounting aids

BF 30	Mounting flange, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
UC-18/30GM-IR	Interface cable
ULTRA-PROG-IR	Service program

Electrical Connection



UC500-30GM70-2E2R2-V15
UC2000-30GM70-2E2R2-V15
UC3500-30GM70-2E2R2-V15
UC6000-30GM70-2E2R2-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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Input/output type	1 synchronization connection, bidirectional / TEACH-IN input, programmable
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	brass, nickel-plated
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, 2 switching outputs
- Ø30 mm cylindrical housing with adjustable head
- Connector version

Your Benefit

- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface

Model Number

		UC500-30GM70S-2E2R2-V15	UC2000-30GM70S-2E2R2-V15	UC3500-30GM70S-2E2R2-V15	UC6000-30GM70S-2E2R2-V15
Sensing range	45 ... 500 mm	●			
	100 ... 2000 mm		●		
	200 ... 3500 mm			●	
	350 ... 6000 mm				●
Transducer frequency	approx. 300 kHz	●			
	approx. 200 kHz		●		
	approx. 120 kHz			●	
	approx. 80 kHz				●

Approvals and Certificates

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

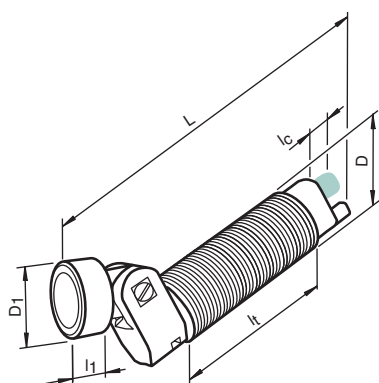
Dimensions

Diameter D [mm]	30
Length L [mm]	126 143,5
Thread length l_t [mm]	74,4
Transducer diameter D_1 [mm]	30 65
Transducer length l_1 [mm]	28 37,2
Connector area l_c [mm]	10,5

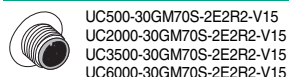
Accessories

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

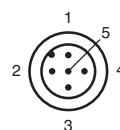
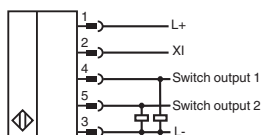
BF 30	Mounting flange, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
UC-18/30GM-IR	Interface cable
ULTRA-PROG-IR	Service program



Electrical Connection



UC500-30GM70S-2E2R2-V15
UC2000-30GM70S-2E2R2-V15
UC3500-30GM70S-2E2R2-V15
UC6000-30GM70S-2E2R2-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)



Technical Data

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General Data

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Potentiometer	Switching output 1 and Switching output 2 adjustable
Interface type	Infrared
Output type	2 switch outputs PNP, NO (NC programmable)
Operating current	Per 150 mA , short-circuit/overload protected
Input/output type	1 synchronization connection, bidirectional / TEACH-IN input, programmable
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	brass, nickel-plated
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65
Connection type	Device connector M12 x 1 , 5-pin



Properties

- 500 mm and 2000 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
- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface

Model Number

	UC500-30GM70-2E2R2-K-V15	UC2000-30GM70-2E2R2-K-V15
Sensing range	45 ... 500 mm	100 ... 2000 mm
Transducer frequency	approx. 300 kHz	approx. 200 kHz

Approvals and Certificates

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

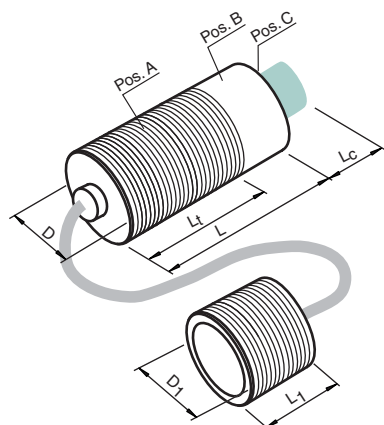
Dimensions

Diameter D [mm]	30
Length L [mm]	111,3
Thread length l _t [mm]	74,4
Transducer diameter D ₁ [mm]	18
Transducer length l ₁ [mm]	26,7
Connector area l _c [mm]	10,5

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

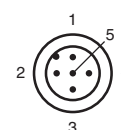
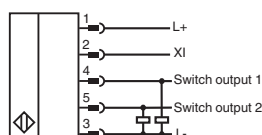
BF 30	Mounting flange, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
UC-18/30GM-IR	Interface cable
ULTRA-PROG-IR	Service program



Electrical Connection



UC500-30GM70-2E2R2-K-V15
UC2000-30GM70-2E2R2-K-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)



Technical Data

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

General Data

Operating voltage	20 ... 30 V DC (including ripple)
No-load supply current	≤ 50 mA
Potentiometer	switch output adjustable
Interface type	Infrared
Output type	1 switch output PNP, NO (NC programmable)
Operating current	300 mA , short-circuit/overload protected
Input/output type	1 synchronization connection, bidirectional / TEACH-IN input, programmable
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	brass, nickel-plated
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 and switching output
- Ø30 mm cylindrical housing
- Connector version

Your Benefit

- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface

Model Number

		UC500-30GM70-IE2R2-V15	UC500-30GM70-UE2R2-V15	UC2000-30GM70-IE2R2-V15	UC2000-30GM70-UE2R2-V15	UC3500-30GM70-IE2R2-V15	UC3500-30GM70-UE2R2-V15	UC6000-30GM70-IE2R2-V15	UC6000-30GM70-UE2R2-V15
Sensing range	green = preferred type	●	●	●	●	●	●	●	●
	45 ... 500 mm								
	100 ... 2000 mm			●	●				
	200 ... 3500 mm					●	●		
	350 ... 6000 mm							●	●
Transducer frequency	approx. 300 kHz	●	●						
	approx. 200 kHz			●	●				
	approx. 120 kHz					●	●		
	approx. 80 kHz							●	●
Output type	1 voltage output 0 ... 10 V , ascending/descending programmable		●		●		●	●	●
	1 current output 4 ... 20 mA , ascending/descending programmable	●	●			●			●

Approvals and Certificates

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

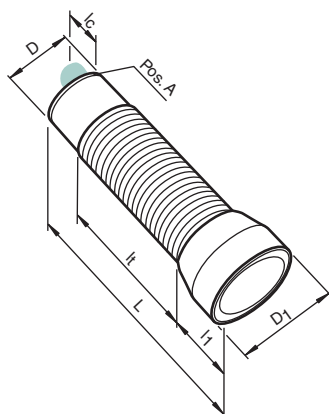
Dimensions

Diameter D [mm]	30	
Length L [mm]	99,3	121,2
Thread length l _t [mm]	74,7	62
Transducer diameter D ₁ [mm]	30	
Transducer length l ₁ [mm]	0,3	0,5
Connector area l _c [mm]	10,5	

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

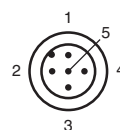
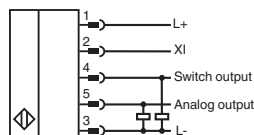
BF 30	Mounting flange, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
UC-18/30GM-IR	Interface cable
ULTRA-PROG-IR	Service program



Electrical Connection



UC500-30GM70-IE2R2-V15
UC500-30GM70-UE2R2-V15
UC2000-30GM70-IE2R2-V15
UC2000-30GM70-UE2R2-V15
UC3500-30GM70-IE2R2-V15
UC3500-30GM70-UE2R2-V15
UC6000-30GM70-IE2R2-V15
UC6000-30GM70-UE2R2-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	20 ... 30 V DC (including ripple)
No-load supply current	≤ 50 mA
Potentiometer	switch output adjustable
Interface type	Infrared
Output type	1 switch output PNP, NO (NC programmable)
Operating current	300 mA , short-circuit/overload protected
Input/output type	1 synchronization connection, bidirectional / TEACH-IN input, programmable
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	brass, nickel-plated
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 and switching output
- Ø30 mm cylindrical housing with adjustable head
- Connector version

Your Benefit

- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface

Model Number

		UC500-30GM70S-IE2R2-V15	UC500-30GM70S-UE2R2-V15	UC2000-30GM70S-IE2R2-V15	UC2000-30GM70S-UE2R2-V15	UC3500-30GM70S-IE2R2-V15	UC3500-30GM70S-UE2R2-V15	UC6000-30GM70S-IE2R2-V15	UC6000-30GM70S-UE2R2-V15
Sensing range	45 ... 500 mm	●	●						
	100 ... 2000 mm			●	●				
	200 ... 3500 mm					●	●		
	350 ... 6000 mm							●	●
Transducer frequency	approx. 300 kHz	●	●						
	approx. 200 kHz			●	●				
	approx. 120 kHz					●	●		
	approx. 80 kHz							●	●
Output type	1 voltage output 0 ... 10 V , ascending/descending programmable		●		●		●		●
	1 current output 4 ... 20 mA , ascending/descending programmable	●		●		●		●	

Approvals and Certificates

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

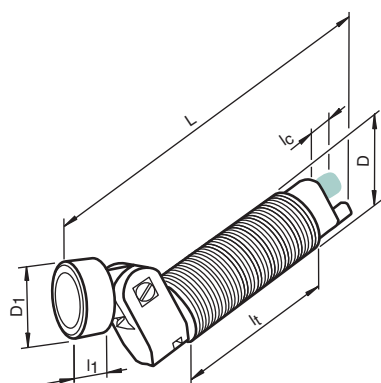
Dimensions

Diameter D [mm]	30
Length L [mm]	126 143,5
Thread length l_t [mm]	74,4
Transducer diameter D_1 [mm]	30 65
Transducer length l_1 [mm]	28 37,2
Connector area l_c [mm]	10,5

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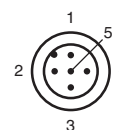
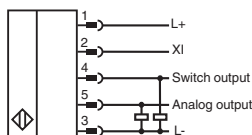
BF 30	Mounting flange, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
UC-18/30GM-IR	Interface cable
ULTRA-PROG-IR	Service program



Electrical Connection



UC500-30GM70S-IE2R2-V15
UC500-30GM70S-UE2R2-V15
UC2000-30GM70S-IE2R2-V15
UC2000-30GM70S-UE2R2-V15
UC3500-30GM70S-IE2R2-V15
UC3500-30GM70S-UE2R2-V15
UC6000-30GM70S-IE2R2-V15
UC6000-30GM70S-UE2R2-V15



Wire colors in accordance with EN 60947-5-2

1	BN	(brown)
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Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
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Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP65
Connection type	Device connector M12 x 1 , 5-pin



Properties

- 500 mm and 2000 mm sensing range versions
- DC, analog and switching output
- Ø30 mm cylindrical housing with separate head
- Connector version

Your Benefit

- Provides maximum sensing range in space-restricted mounting areas
- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface

Model Number

	green = preferred type	UC500-30GM70-IE2R2-K-V15	UC500-30GM70-UE2R2-K-V15	UC2000-30GM70-IE2R2-K-V15	UC2000-30GM70-UE2R2-K-V15
Sensing range	45 ... 500 mm	●	●		
	100 ... 2000 mm			●	●
Transducer frequency	approx. 300 kHz	●	●		
	approx. 200 kHz			●	●
Output type	1 voltage output 0 ... 10 V , ascending/descending programmable		●		●
	1 current output 4 ... 20 mA , ascending/descending programmable	●		●	

Approvals and Certificates

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

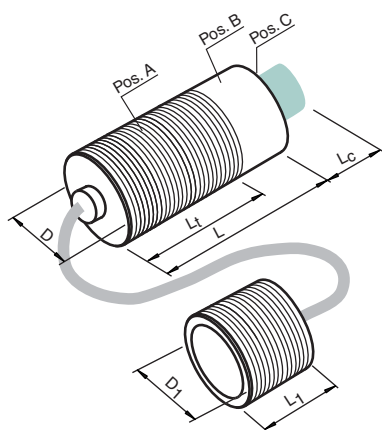
Dimensions

Diameter D [mm]	30
Length L [mm]	111,3
Thread length l_t [mm]	74,4
Transducer diameter D_1 [mm]	18
Transducer length l_1 [mm]	26,7
Connector area l_c [mm]	10,5

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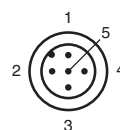
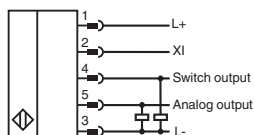
BF 30	Mounting flange, 30 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V15-G-2M-PUR	Cable socket, M12, 5-pin, PUR cable
V15-W-2M-PUR	Cable socket, M12, 5-pin, PUR cable
UC-18/30GM-IR	Interface cable
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Electrical Connection



UC500-30GM70-IE2R2-K-V15
UC500-30GM70-UE2R2-K-V15
UC2000-30GM70-IE2R2-K-V15
UC2000-30GM70-UE2R2-K-V15



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