0-30GM-E4-V15

25

61

10

Pos. A

32.5

57,5

0-30GM-E5-V15

0-30GM-E5-V15 0-30GM-E4-V15 0-30GM-E5-V15

0-30GM-E4-V15

30GM-E5-V15

30GM-E4-V1









Technical Data

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

General Data

10 ... 30 V DC , ripple 10 %SS Operating voltage

No-load supply current

200 mA, short-circuit/overload protected Rated operational current

Input type 1 program input, Synchronization bi-directional

Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Material nickel plated brass; plastic components: PBT Housing

Transducer epoxy resin/hollow glass sphere mixture; polyurethane foam IP65 Protection degree

Connection type Device connector M12 x 1, 5-pin



Properties

- Up to 6000 mm sensing range ver-
- DC, switching output
- Ø30 mm cylindrical housing
- **Connector version**

Your Benefit

Teach-wire or UB-PROG2 pushbutton configurable

Model Number

| | green = preferred type | UB500- | UB500- | UB200(| UB 2000 | UB400 | UB400 | UB600 | UB600 |
|----------------------|---|--------|--------|--------|----------------|--------------|--------------|-------|-------|
| Sensing range | 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 | | | | | | | • | • |
| Output type | 1 switch output NPN , Normally open/closed , programmable | • | | • | | • | | • | |
| | 1 switch output PNP , Normally open/closed , programmable | | • | | • | | • | | • |

Approvals and Certificates

| UL approval | cULus Listed, General Purpose | | | | | | | | |
|---|--------------------------------|---|---|---|---|---|----|---|----|
| CSA approval | cCSAus Listed, General Purpose | • | • | • | • | • | • | • | • |
| Dimensions | | | | | | | | | |
| Length L [mm] | | | 9 | 4 | | 1 | 80 | 1 | 12 |
| Diameter D [mm] | | | | | 3 | 0 | | • | |
| Transducer diameter D ₁ [mm] | | | 3 | 0 | | 4 | 10 | 7 | '3 |

Transducer diameter D₁ [mm] 30 Transducer length I₁ [mm] O Thread length It [mm] 72 Connector area I_c [mm] LED position

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

BF 30 Mounting flange, 30 mm

BF 30-F Mounting flange with dead stop, 30 mm

BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of

5 ... 30 mm

UB-PROG2 Programming unit Cable socket, M12, 5-pin, PVC cable V15-G-2M-PVC

UVW90-M30 Ultrasonic -deflector

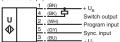
V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UVW90-K30 Ultrasonic -deflector

Electrical Connection



UB500-30GM-E4-V15 UB4000-30GM-E4-V15 UB2000-30GM-E4-V15 UB6000-30GM-E4-V15



UB2000-30GM-E5-V15 UB6000-30GM-E5-V15 UB4000-30GM-E5-V15 UB500-30GM-E5-V15

Standard symbol/Connections (version E5, pnp)

| | 1 | (BN) | |
|----|---|------|---------------|
| | 2 | (WH) | Program input |
| U | 5 | (GY) | Sync. input |
| IΦ | 4 | (BK) | |
| * | 3 | (BU) | Switch output |



| 1 | I BN | (brow |
|---|------|--------|
| 2 | WH | (white |
| 3 | BU | (blue) |
| 4 | BK | (black |
| 5 | GY | (gray) |



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

General Data

Model Number

Operating voltage 10 ... 30 V DC , ripple 10 $\%_{SS}$

No-load supply current < 50 mA

RS 232, 9600 Bit/s, no parity, 8 data bits, 1 stop bit Interface type 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

Connection type Device connector M12 x 1, 5-pin



Properties

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

Your Benefit

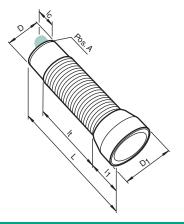
Potentiometer-free configuration via programming plug or ULTRA3000 software

Further Products

In this series, we offer additionally:

UCC1000-30GM-E6R2-V15

Technical data like UC2000-30GM-E6R2-V15 but: Sensing range: 1000 mm Transducer: chemical resistant PTFE coated



JC2000-30GM-E7R2-V15 UC4000-30GM-E6R2-V15 UC4000-30GM-E7R2-V15 UC6000-30GM-E6R2-V15 UC6000-30GM-E7R2-V15 UC2000-30GM-E6R2-V15 JC500-30GM-E7R2-V15 UC500-30GM-E6R2-V1 Sensing range 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 2 switch outputs NPN, NO/NC, programmable Output type 2 switch outputs PNP, NO/NC, programmable Switching frequency ≤ 0.5 Hz

≤ 1 Hz

< 2.5 Hz ≤ 7 Hz

Approvals and Certificates

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

| Dimensions | | | |
|---|-------|---------|------|
| Length L [mm] | 94 | 108 | 112 |
| Diameter D [mm] | 30 | | |
| Transducer diameter D ₁ [mm] | 30 | 40 | 73 |
| Transducer length I ₁ [mm] | 0 | 25 | 32,5 |
| Thread length I _t [mm] | 72 | 61 | 57,5 |
| Connector area I _c [mm] | 1 | 0 | |
| LED position | Pos | s. A | |
| Temperature / program plug | Pos A | 27 5 mm | |

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

BF 30 Mounting flange, 30 mm UC-30GM-R2 Programming cable

ULTRA3000 Software for ultrasonic sensors, comfort line

UVW90-M30 Ultrasonic -deflector

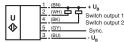
V15-G-2M-PVC Cable socket, M12, 5-pin, PVC cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

Electrical Connection



UC500-30GM-E7R2-V15 UC2000-30GM-E7R2-V15 UC4000-30GM-E7R2-V15 UC6000-30GM-E7R2-V15

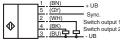
Standard symbol/C (version E7, npn)



Core colors in accordance with EN 60947-5-2

UC500-30GM-E6R2-V15 UC2000-30GM-E6R2-V15 UC4000-30GM-E6R2-V15 UC6000-30GM-E6R2-V15 UCC1000-30GM-E6R2-V15

Standard symbol/Connection (version E6, pnp)



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



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

iM-IUR2-V15

IM-IUR2-V15

A-IUR2-V15

1-IUR2-V15

iM-IUR2-V15



Technical Data

Connection type

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} |
| 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 |

Device connector M12 x 1, 5-pin



| Pro | ne | rti | es |
|-----|----|-----|----|
| | | ٠ | - |

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

Your Benefit

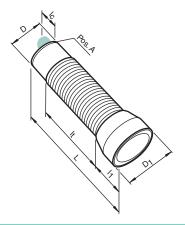
■ Potentiometer-free configuration via programming plug or ULTRA3000 software

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-II | UC500-30GM-II | UC2000-30GM- | UC4000-30GM- | UC6000-30GM- |
|----------------------------|---|---------------|---------------|--------------|--------------|--------------|
| 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 ≥ 0.05 mm | • | • | | | |
| | evaluation range [mm]/4000, but ≥ 0.35 mm | | | | | |
| Ambient temperature | 0 70 °C (32 158 °F) | • | | | | |
| | -25 70 °C (-13 158 °F) | | • | • | • | • |
| Approvals and Certi | ficates | | | | | |
| 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 ₁ [mm] | | | 30 | | 40 | 73 |
| Transducer length I ₁ [| mm] | | 0 | | 25 | 32,5 |
| Thread length I _t [mm] | | | 92 | | 81 | 77,5 |
| Connector area I _c [mm] | | | | 10 | | |
| LED position | | | | Pos. A | | |
| Temperature / progra | m plug | | Pos. A , 27.5 mm | | | |

| Accessories | This and more accessories can be | e found in chapter 3.5 from page 673 |
|-------------|----------------------------------|--------------------------------------|
| Accessories | See pages from 972 for cordsets | See pages 1068 for mounting aids |
| BF 30 | Mounting flange, 30 mm | |

BF 30-F Mounting flange with dead stop, 30 mm BF 5-30

Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

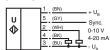
UC-30GM-R2 Programming cable

ULTRA3000 Software for ultrasonic sensors, comfort line V15-G-2M-PVC Cable socket, M12, 5-pin, PVC cable V15-W-2M-PUR 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



Core colors in accordance with EN 60947-5-2



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



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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 | 10 30 V DC , ripple 10 % _{SS} |
| 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 |

sensor head: IP67 Protection degree connector sensor head/controller unit: IP52

Device connector M12 x 1, 5-pin Connection type

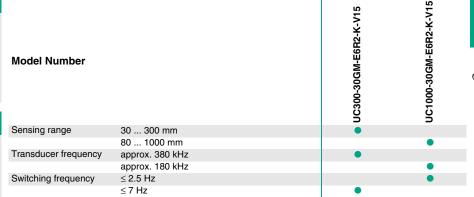


Properties

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

Your Benefit

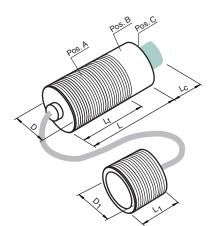
- Provides maximum sensing range in space-restricted mounting areas
- Potentiometer-free configuration via programming plug or ULTRA3000 software



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 ₁ [mm] | 18 | 30 | |
| Transducer length I ₁ [mm] | 25 | 27 | |
| Thread length I _t [mm] | 71,5 | 90 | |
| Connector area I _c [mm] | | 10 | |
| LED position | F | Pos. C | |
| Temperature / program plug | Pos. 0 | Pos. C , 27.5 mm | |



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

BF 30 Mounting flange, 30 mm BF 30-F Mounting flange with dead stop, 30 mm BF 18 Mounting flange, 18 mm

BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of

5 ... 30 mm

BF 18-F Mounting flange with dead stop, 18 mm

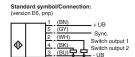
UC-30GM-R2 Programming cable

ULTRA3000 Software for ultrasonic sensors, comfort line V15-G-2M-PVC Cable socket, M12, 5-pin, PVC cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

Electrical Connection



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



Core colors in accordance with EN 60947-5-2



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

00-30GM-IUR2-K-V15

0-30GM-IUR2-K-V15





Technical Data

Connection type

Model Number

Temperature / program plug

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} |
| 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 |
| 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 |
| | |

Device connector M12 x 1, 5-pin

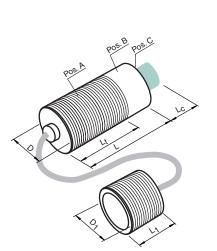


| Pro | per | ties | 3 |
|-----|-----|------|---|
| | | | |

- 300 mm and 1000 mm sensing range versions
- DC, analog 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



| | | UC30(| UC100 |
|----------------------|---|-------|-------|
| Sensing range | 30 300 mm | • | |
| | 80 1000 mm | | • |
| Transducer frequency | approx. 380 kHz | • | |
| | approx. 180 kHz | | • |
| Resolution | evaluation range [mm]/4000, but ≥ 0.05 mm | • | |
| | evaluation range [mm]/4000, but ≥ 0.35 mm | | • |

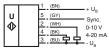
| Approvals and Certifica | ates | | | |
|--|--------------------------------|----|--------|----|
| UL approval | cULus Listed, General Purpose | • | | • |
| CSA approval | cCSAus Listed, General Purpose | • | | • |
| Dimensions | | | | |
| Length L [mm] | | | 112 | |
| Diameter D [mm] | meter D [mm] 30 | | | |
| Transducer diameter D ₁ [mr | n] | 18 | | 30 |
| Transducer length I ₁ [mm] | | 25 | | 27 |
| Thread length I _t [mm] | | | 90 | |
| Connector area I _c [mm] | | | 10 | |
| LED position | | | Pos. (| С |

| Accessories | This and more accessories can be | round in chapter 3.5 from page 673 |
|--------------|-------------------------------------|--------------------------------------|
| Accessories | See pages from 972 for cordsets | See pages 1068 for mounting aids |
| BF 18 | Mounting flange, 18 mm | |
| BF 30 | Mounting flange, 30 mm | |
| BF 18-F | Mounting flange with dead stop, 1 | 8 mm |
| BF 30-F | Mounting flange with dead stop, 3 | 80 mm |
| BF 5-30 | Universal mounting bracket for cy | lindrical sensors with a diameter of |
| | 5 30 mm | |
| UC-30GM-R2 | Programming cable | |
| ULTRA3000 | Software for ultrasonic sensors, of | comfort line |
| DA5-IU-2K-V | Process control and indication eq | uipment |
| V15-G-2M-PVC | Cable socket, M12, 5-pin, PVC ca | able |
| V15-W-2M-PUR | Cable socket, M12, 5-pin, PUR ca | able |
| | | |

Electrical Connection



UC300-30GM-IUR2-K-V15 UC1000-30GM-IUR2-K-V15





Wire colors in accordance with EN 60947-5-2

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



Pos. C , 27.5 mm

2R2-V15

E2R2-V15

E2R2-V15

2R2-V15



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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 DC (including ripple) |
| No-load supply current | ≤ 50 mA |

Potentiometer Switching output 1 and Switching output 2 adjustable Interface type Infrared

2 switch outputs PNP, NO (NC programmable) Output type Operating current Per 150 mA, short-circuit/overload protected

1 synchronization connection, bidirectional / TEACH-IN input, programmable Input/output type 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 ver-
- 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

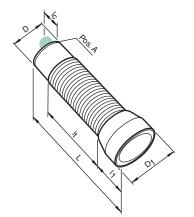
| Model Number | | UC500-30GM70-2E2 | UC2000-30GM70-2E | UC3500-30GM70-2E | UC6000-30GM70-2E |
|----------------------|-----------------|------------------|------------------|------------------|------------------|
| Sensing range | 45 500 mm | • | | | |
| | 100 2000 mm | | | | |
| | 200 3500 mm | | | • | |
| | 350 6000 mm | | | | • |
| Transducer frequency | approx. 300 kHz | • | | | |
| | approx. 200 kHz | | • | | |
| | approx. 120 kHz | | | • | |

Approvals and Certificates

| UL approval | cULus Listed, General Purpose | • | • | • | • |
|--------------|--------------------------------|---|---|---|---|
| CSA approval | cCSAus Listed, General Purpose | • | • | • | • |

Dimensions

| Difficusions | | | |
|---|------|-----|-------|
| Diameter D [mm] | 30 | | |
| Length L [mm] | 99,3 | | 121,2 |
| Thread length I _t [mm] | 74,7 | | 62 |
| Transducer diameter D ₁ [mm] | 30 | | 65 |
| Transducer length I ₁ [mm] | 0,3 | 0,5 | 36,5 |
| Connector area I _c [mm] | 10,5 | | |



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

BF 30 Mounting flange, 30 mm

BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of

approx. 80 kHz

V15-G-2M-PUR Cable socket, M12, 5-pin, PUR cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

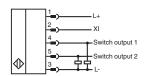
UC-18/30GM-IR Interface cable **ULTRA-PROG-IR** Service program

Electrical Connection



www.pepperl-fuchs.com

UC500-30GM70-2F2B2-V15 UC2000-30GM70-2E2R2-V15 UC3500-30GM70-2F2R2-V15 UC6000-30GM70-2E2R2-V15





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

00-30GM70S-2E2R2-V15

-30GM70S-2E2R2-V15

0-30GM70S-2E2R2-V15

00-30GM70S-2E2R2-V15











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 ver-
- 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

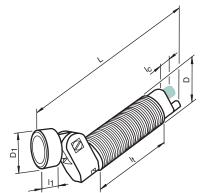
| | | UC500 | UC200 | UC350 | OC600 |
|------------------------|-------------------------------|-------|-------|-------|-------|
| Sensing range | 45 500 mm | • | | | |
| | 100 2000 mm | | • | | |
| | 200 3500 mm | | | • | |
| | 350 6000 mm | | | | • |
| Transducer frequency | approx. 300 kHz | • | | | |
| | approx. 200 kHz | | • | | |
| | approx. 120 kHz | | | • | |
| | approx. 80 kHz | | | | • |
| Approvals and Certific | cates | | | | |
| UL approval | cULus Listed, General Purpose | • | • | • | • |

| CSA approval |
|-----------------|
| Dimensions |
| Diameter D [mm |
| Length L [mm] |
| Throad longth I |

Model Number

| Dimensions | | |
|---|------|-------|
| Diameter D [mm] | 30 | |
| Length L [mm] | 126 | 143,5 |
| Thread length I _t [mm] | 74,4 | |
| Transducer diameter D ₁ [mm] | 30 | 65 |
| Transducer length I ₁ [mm] | 28 | 37,2 |
| Connector area I _c [mm] | 10,5 | |
| | | |

cCSAus Listed, General Purpose



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

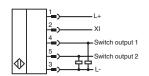
V15-G-2M-PUR Cable socket, M12, 5-pin, PUR cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UC-18/30GM-IR Interface cable **ULTRA-PROG-IR** Service program

Electrical Connection



UC500-30GM70S-2E2R2-V15 UC2000-30GM70S-2E2R2-V15 UC3500-30GM70S-2F2B2-V15 UC6000-30GM70S-2E2R2-V15





Wire colors in accordance with EN 60947-5-2

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

-30GM70-2E2R2-K-V15

0GM70-2E2R2-K-V1



Technical Data

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

Material

Operating voltage 12 ... 30 V DC (including ripple) No-load supply current ≤ 50 mA

Switching output 1 and Switching output 2 adjustable Potentiometer Interface type Infrared

Output type 2 switch outputs PNP, NO (NC programmable)

Operating current Per 150 mA, short-circuit/overload protected 1 synchronization connection, bidirectional / TEACH-IN input, programmable Input/output type

-25 ... 70 °C (-13 ... 158 °F) Ambient temperature

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

 ϵ

- 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

| | | UC500-3 | UC2000- |
|----------------------|-----------------|---------|---------|
| Sensing range | 45 500 mm | • | |
| | 100 2000 mm | | • |
| Transducer frequency | approx. 300 kHz | • | |
| | approx. 200 kHz | | • |

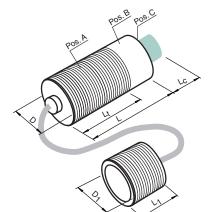
Approvals and Certificates

| UL approval | cULus Listed, General Purpose | • | • |
|--------------|--------------------------------|---|---|
| CSA approval | cCSAus Listed, General Purpose | • | • |
| | | | |

| Dimensions |
|------------------|
| Diameter D [m |
| Langeth L [mana] |

Model Number

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



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

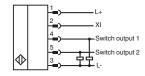
V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UC-18/30GM-IR Interface cable **ULTRA-PROG-IR** Service program

Electrical Connection



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





| ****** |) | duiloc wii |
|--------|----|------------|
| 1 | BN | (brown) |
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |
| 5 | GY | (aray) |



0-30GM70-UE2R2-V15

0-30GM70-IE2R2-V15

0-30GM70-UE2R2-V15 0-30GM70-IE2R2-V15

00-30GM70-UE2R2-V15

-30GM70-UE2R2-V15

-30GM70-IE2R2-V15





Technical Data

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

| 0 | | D-4 | |
|-----|-------|-----|----|
| Ger | neral | Dai | lα |

20 ... 30 V DC (including ripple) Operating voltage No-load supply current ≤ 50 mA switch output adjustable Potentiometer Interface type 1 switch output PNP, NO (NC programmable) Output type Operating current 300 mA, short-circuit/overload protected 1 synchronization connection, bidirectional / TEACH-IN input, programmable Input/output type Ambient temperature -25 ... 70 °C (-13 ... 158 °F)

Material Housing brass, nickel-plated

epoxy resin/hollow glass sphere mixture; polyurethane foam Transducer

Protection degree IP65

Connection type Device connector M12 x 1, 5-pin



Properties

- Up to 6000 mm sensing range ver-
- 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

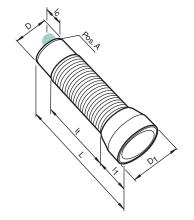
Model Number

| | green = preferred type | UC500 | UC500 | UC200 | UC200 | UC350 | UC350 | OC600 | OC600 |
|----------------------|--|-------|-------|-------|-------|--------------|-------|-------|-------|
| 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] | 3 | 0 | | |
| Length L [mm] | 99,3 | | 121,2 | |
| Thread length I _t [mm] | 74,7 | | 62 | |
| Transducer diameter D ₁ [mm] | 30 | | 65 | |
| Transducer length I ₁ [mm] | 0,3 | 0,5 | 36,5 | |
| Connector area I _c [mm] | 10,5 | | | |



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

BF 30 Mounting flange, 30 mm BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm

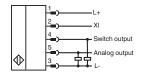
V15-G-2M-PUR Cable socket, M12, 5-pin, PUR cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

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-IE2B2-V15 UC6000-30GM70-UE2R2-V15





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



500-30GM70S-UE2R2-V15

500-30GM70S-IE2R2-V15

000-30GM70S-UE2R2-V15 000-30GM70S-IE2R2-V15

00-30GM70S-UE2R2-V15 00-30GM70S-IE2R2-V15

000-30GM70S-UE2R2-V15

000-30GM70S-IE2R2-V15











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 ver-
- 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

| | | UCSC | UCSC | UCZC | UCZC | UC3 | UC36 |) 9 2 1 | ncec |
|----------------------|--|------|------|------|------|-----|------|------------------|------|
| 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 | • | | • | | • | | • | |

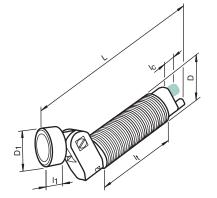
Approvals and Certificates

| UL approval | cULus Listed, General Purpose | • | | • | | • | • | • | • |
|--------------|--------------------------------|---|---|---|---|---|---|---|---|
| CSA approval | cCSAus Listed, General Purpose | • | • | • | • | • | • | • | • |

Dimensions

Model Number

| Diameter D [mm] | 30 | |
|---|------|-------|
| Length L [mm] | 126 | 143,5 |
| Thread length I _t [mm] | 74,4 | |
| Transducer diameter D ₁ [mm] | 30 | 65 |
| Transducer length I ₁ [mm] | 28 | 37,2 |
| Connector area I _c [mm] | 10,5 | |



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

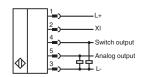
V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UC-18/30GM-IR Interface cable **ULTRA-PROG-IR** Service program

Electrical Connection



UC500-30GM70S-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 |
|---|----|---------|
| 2 | WH | (white) |
| 3 | BU | (blue) |
| 4 | BK | (black) |
| 5 | GY | (gray) |



of issue 04/08/2015

70-UE2R2-K-V15

70-IE2R2-K-V15

0-UE2R2-K-V15

0-IE2R2-K-V15









Technical Data

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

General Data

Model Number

20 ... 30 V DC (including ripple) Operating voltage No-load supply current ≤ 50 mA

switch output adjustable Potentiometer

Interface type

1 switch output PNP, NO (NC programmable) Output type Operating current 300 mA, short-circuit/overload protected

1 synchronization connection, bidirectional / TEACH-IN input, programmable Input/output type

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, analog and switching output
- Ø30 mm cylindrical housing with separate head
- Connector version

Your Benefit

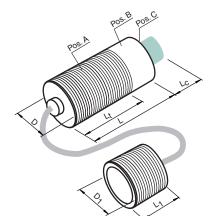
- Provides maximum sensing range in space-restricted mounting areas
- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface

| | green = preferred type | UC500-30GM7 | UC500-30GM7 | UC2000-30GM | UC2000-30GM |
|----------------------|--|-------------|-------------|-------------|-------------|
| 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 | | | cU |

| UL approval | cULus Listed, General Purpose | • | • | • | • |
|--------------|--------------------------------|---|---|---|---|
| CSA approval | cCSAus Listed, General Purpose | • | • | • | • |

| Dimensions | |
|---|-------|
| Diameter D [mm] | 30 |
| Length L [mm] | 111,3 |
| Thread length I _t [mm] | 74,4 |
| Transducer diameter D ₁ [mm] | 18 |
| Transducer length I ₁ [mm] | 26,7 |
| Connector area I _a [mm] | 10.5 |



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

V15-G-2M-PUR

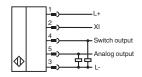
Cable socket, M12, 5-pin, PUR cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UC-18/30GM-IR Interface cable **ULTRA-PROG-IR** Service program

Electrical Connection



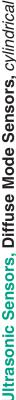
UC500-30GM70-IE2B2-K-V15 UC500-30GM70-UE2R2-K-V15 UC2000-30GM70-IF2B2-K-V15 UC2000-30GM70-UE2R2-K-V15





Wire colors in accordance with EN 60947-5-2

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









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

General Data

Model Number

Operating voltage 20 ... 30 V DC (including ripple) No-load supply current ≤ 50 mA switch output adjustable Potentiometer

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 -25 ... 70 °C (-13 ... 158 °F) Ambient temperature

Material

Housing High grade stainless steel

Transducer PTFE coated; epoxy resin/hollow glass sphere mixture; polyurethane foam

Protection degree IP65

Connection type Device connector M12 x 1, 5-pin



Properties

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- Up to 6000 mm sensing range ver-
- DC, analog and switching output
- Ø30 mm cylindrical housing
- **Connector version**

Your Benefit

- Chemically resistant PTFE-coated sensing face and corrosion resistant high grade stasinless steel housing
- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface

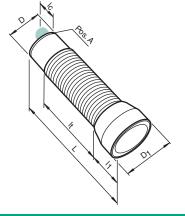
JCC2000-30GH70-UE2R2-V15 JCC3500-30GH70-UE2R2-V15 JCC6000-30GH70-UE2R2-V15 JCC6000-30GH70-IE2R2-V15 UCC2000-30GH70-IE2R2-V15 JCC3500-30GH70-IE2R2-V15 UCC500-30GH70-UE2R2-V15 UCC500-30GH70-IE2R2-V1 45 ... 500 mm Sensing range 100 ... 2000 mm 200 ... 3500 mm 350 ... 6000 mm Transducer frequency approx. 300 kHz approx. 200 kHz approx. 120 kHz approx. 80 kHz 1 voltage output 0 ... 10 V , ascending/ Output type 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] | 3 | | | |
|---|--------|-------|------|--|
| Length L [mm] | 99,3 | 121,2 | | |
| Thread length I _t [mm] | 74,7 | 62 | | |
| Transducer diameter D ₁ [mm] | 30 | 65 | | |
| Transducer length I ₁ [mm] | 0,3 0, | | 36,5 | |
| Connector area I _c [mm] | 10,5 | | | |



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

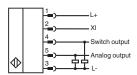
V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UC-18/30GM-IR Interface cable **ULTRA-PROG-IR** Service program

Electrical Connection



UCC500-30GH70-IE2R2-V15 UCC500-30GH70-UE2R2-V15 UCC2000-30GH70-IE2R2-V15 UCC2000-30GH70-UE2R2-V15 UCC3500-30GH70-IE2R2-V15 UCC3500-30GH70-UE2B2-V15 UCC6000-30GH70-IE2R2-V15 UCC6000-30GH70-UE2R2-V15





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



3500-30GH70S-UE2R2-V15

3500-30GH70S-IE2R2-V15

6000-30GH70S-UE2R2-V15

6000-30GH70S-IE2R2-V15

2000-30GH70S-UE2R2-V15

500-30GH70S-UE2R2-V15 500-30GH70S-IE2R2-V15











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 High grade stainless steel PTFE coated; epoxy resin/hollow glass sphere mixture; polyurethane foam Transducer Protection degree IP65

Connection type Device connector M12 x 1, 5-pin

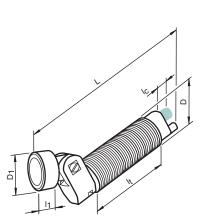


Properties

- Up to 6000 mm sensing range ver-
- DC, analog and switching output
- Ø30 mm cylindrical housing with adjustable head
- Connector version

Your Benefit

- Chemically resistant PTFE-coated sensing face and corrosion resistant high grade stasinless steel
- Simple potentiometer-based configuration
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface



Model Number

| | | ည | သ | သ | သ | သ | သ | သ | သ |
|----------------------|--|---|---|---|---|---|---|---|---|
| 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] | 143,5 | 126 |
| Thread length I _t [mm] | 74,4 | |
| Transducer diameter D ₁ [mm] | 30 | 65 |
| Transducer length I ₁ [mm] | 28 | 37,2 |
| Connector area I _c [mm] | 10,5 | |

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

BF 30 Mounting flange, 30 mm

BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of

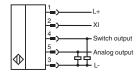
V15-G-2M-PUR Cable socket, M12, 5-pin, PUR cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UC-18/30GM-IR Interface cable Service program **ULTRA-PROG-IR**

Electrical Connection



UCC2000-30GH70S-UE2R2-V15 UCC3500-30GH70S-IE2R2-V15 UCC3500-30GH70S-UE2R2-V15 UCC6000-30GH70S-IE2R2-V15 UCC6000-30GH70S-UE2R2-V15 UCC500-30GH70S-IE2R2-V15 UCC500-30GH70S-UE2B2-V15 UCC2000-30GH70S-IE2R2-V15





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

-30GH70-UE2R2-K-V15

30GH70-IE2R2-K-V15

30GH70-IE2R2-K-V15

30GH70-UE2R2-K-V1



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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 20 ... 30 V DC (including ripple) No-load supply current ≤ 50 mA

switch output adjustable Potentiometer

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

-25 ... 70 °C (-13 ... 158 °F) Ambient temperature

Material

Housing High grade stainless steel Transducer PTFE coated; epoxy resin/hollow glass sphere mixture; polyurethane foam

Protection degree IP65

Connection type Device connector M12 x 1, 5-pin

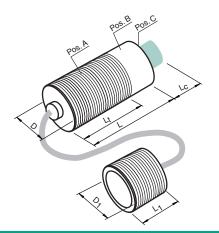


Properties

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

Your Benefit

- **Chemically resistant PTFE-coated** sensing face and corrosion resistant high grade stasinless steel
- Provides maximum sensing range in space-restricted mounting areas
- Simple potentiometer-based confi-
- Optional, expanded configuration control via ULTRA-PROG-IR software and interface



| | | UCC500-3 | UCC500-3 | UCC2000 | UCC2000 |
|----------------------|--|----------|----------|---------|---------|
| 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

Model Number

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

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

BF 30 Mounting flange, 30 mm

BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of

5 ... 30 mm

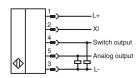
V15-G-2M-PUR Cable socket, M12, 5-pin, PUR cable V15-W-2M-PUR Cable socket, M12, 5-pin, PUR cable

UC-18/30GM-IR Interface cable **ULTRA-PROG-IR** Service program

Electrical Connection



UCC500-30GH70-JE2B2-K-V15 UCC500-30GH70-UE2R2-K-V15 UCC2000-30GH70-IE2B2-K-V15 UCC2000-30GH70-UE2R2-K-V15





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

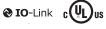


-10-V15











Technical Data

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

General Data

10 ... 30 V DC , ripple 10 %SS Operating voltage No-load supply current Power consumption \leq 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

Stainless steel 1.4305 / AISI 303, TPU, Polyamides Housing Transducer epoxy resin/hollow glass sphere mixture; polyurethane foam

Protection degree Connection type Device connector M12 x 1, 5-pin



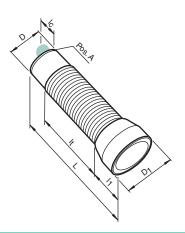
IP65/IP67

Properties

- Up to 6000 mm sensing range ver-
- 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 pa-
- Optional, expanded configuration control via PACTware
- High-visibility LED indicators



| Model Number | | UC500-30GM-2EP-I | UC2000-30GM-2EP | UC4000-30GM-2EP | UC6000-30GM-2EP |
|----------------------|-----------------|------------------|-----------------|-----------------|-----------------|
| 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

| CSA approval | cCSAus Listed, General Purpose | • | | | | |
|--------------|--------------------------------|---|---|---|---|--|
| UL approval | cULus Listed, General Purpose | • | • | • | • | |

Dimensions

| Billionolono | | | |
|---|----|----|----|
| Diameter D [mm] | 3 | 0 | |
| Length L [mm] | 81 | 86 | 93 |
| Thread length I _t [mm] | 54 | 3 | 6 |
| Transducer diameter D ₁ [mm] | 30 | 40 | 73 |
| Transducer length I ₁ [mm] | 2 | 25 | 32 |
| Connector area I _c [mm] | 1 | 1 | |

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

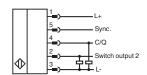
IODD Interpreter Software for the integration of IODDs in a frame application (e. g. PACTware)

PACTware 4.X FDT frame application

Electrical Connection



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

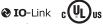




| 1 2 3 4 | BN WH BU BK | (brown) (white) (blue) (black) |
|------------------|----------------------|---|
| 4 | BK | (black) |
| 5 l | GY | (gray) |









Properties

- Up to 6000 mm sensing range ver-
- 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 pa-
- Optional, expanded configuration control via PACTware
- High-visibility LED indicators

Technical Data

Protection degree

Connection type

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} 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 |
| | |

Device connector M12 x 1, 5-pin

| | / | _ | \ | |
|---|---|---|---|---|
| / | | | > |) |
| (| W | | | ĥ |
| / | W | w | | / |

| 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 | • | - T | - T | |
| - | 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

| Difficusions | | | |
|---|----|----|----|
| Diameter D [mm] | 3 | 30 | |
| Length L [mm] | 81 | 86 | 93 |
| Thread length I _t [mm] | 54 | 36 | 6 |
| Transducer diameter D ₁ [mm] | 30 | 40 | 73 |
| Transducer length I ₁ [mm] | 2 | 25 | 32 |
| Connector area L [mm] | 1 | 1 | |

cULus Listed, General Purpose cCSAus Listed, General Purpose

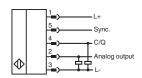
This and more accessories can be found in chapter 3.5 from page 673 **Accessories** See pages 1068 ... for mounting aids See pages from 972 ... for cordsets

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





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



 ϵ **ECOLAB**



Properties

- 3000 mm sensing range
- DC, analog and switching output versions
- Ø30 mm cylindrical housing
- Cable version

Technical Data

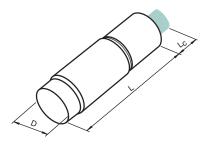
For detailed data and product description refer to the data sheets at www.pepperl-fuchs.com

| General Data | |
|------------------------|---|
| Sensing range | 200 3000 mm |
| Transducer frequency | approx. 100 kHz |
| Operating voltage | 10 30 V DC |
| No-load supply current | ≤ 50 mA |
| Input type | 1 program input |
| Input/output type | 1 synchronization connection, bidirectional |
| Ambient temperature | -25 60 °C (-13 140 °F) |
| Material | |
| Housing | Stainless steel 1.4404 / AISI 316L |
| Transducer | Stainless steel 1.4435 / AISI 316L |
| Protection degree | IP68 / IP69K |
| Connection type | cable PUR . 5 m |



| Model Number | green = preferred type | UMC3000-30H-E5-5M-F | UMC3000-30H-I-5M-FA |
|---------------------------------------|--|---------------------|---------------------|
| Output type | 1 analog output 4 20 mA | | • |
| | 1 switch output, PNP NO/NC, programmable | • | |
| Rated operational current | 200 mA , short-circuit/overload protected | • | |
| Resolution | Evaluation range [mm]/3200, however ≥ 0.4 mm | | • |
| Deviation of the characteristic curve | ≤ 0.2 % of full-scale value | | • |
| Switching frequency | ≤ 2.8 Hz | • | |
| Dimensions | | | |
| Length L [mm] | | | 100 |
| Diameter D [mm] | | | 30 |
| Thread length I _t [mm] | | | 0 |
| Connector area I _c [mm] | | | 11 |

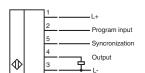
| Accessories | This and more accessories can be found in chapter 3.5 from page 673 |
|--|---|
| Accessories | See pages from 972 for cordsets See pages 1068 for mounting aids |
| UC-PROG1 | Programming adapter |
| V15S-G-0,3M-PUR-WA | Male cordset, M12, 5-pin, PUR cable with WAGO terminals |
| MH-30H-01-FA Mounting aid, 30 mm acc. to EHEDG | |



Electrical Connection



UMC3000-30H-E5-5M-FA UMC3000-30H-I-5M-FA



Wire colors in accordance with EN 60947-5-2

| 4 | l BN | (browr |
|---|------|---------|
| 2 | WH | (white) |
| _ | | |
| 3 | BU | (blue) |
| 4 | BK | (black) |
| 5 | l GY | (gray) |





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

General Data

10 ... 30 V DC , ripple 10 $\% {\rm SS}$ Operating voltage No-load supply current

Input type 1 pulse input for transmitter pulse (clock)

1 pulse output for echo run time, short-circuit proof open collector PNP with pulldown resistor = 22 kOhm Output type

level 0 (no echo): -U_B

level 1 (echo detected): ≥ (+U_B-2 V)

Ambient temperature -25 ... 85 °C (-13 ... 185 °F)

Material

Housing nickel plated brass; plastic components: PBT Transducer epoxy resin/hollow glass sphere mixture; polyurethane foam

Protection degree IP67

Connection type Device connector M12 x 1, 4-pin

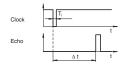


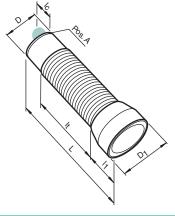
Properties

- Up to 6000 mm sensing range versions
- DC, clock input / echo output
- Requires external controller / amplifier
- Ø30 mm cylindrical housing
- **■** Connector version

The sensing range is determined in the downstream evaluation electronics such as PLC modules or other

existing evaluation units. The object distance in pulse-echo mode is obtained from the echo time $\Delta t.$ The emission of an ultrasonic pulse starts simultaneously with the falling slope of the clock input signal.





| Model Number | | | UB500-30GM-H3-V1 | UB2000-30GM-H3-V | UB4000-30GM-H3-V | UB6000-30GM-H3-V |
|----------------------------|-----------------|--|------------------|------------------|------------------|------------------|
| Sensing range | 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 | | | | | • |
| Approvals and Certificates | | | | | | |

| UL approval | cULus Listed, General Purpose | | | • |
|---|--------------------------------|----|----|------|
| CSA approval | cCSAus Listed, General Purpose | | | • |
| Dimensions | | | | |
| Length L [mm] | | 80 | 95 | 100 |
| Diameter D [mm] | | | 30 | • |
| Transducer diameter D ₁ [mm] | | 30 | 40 | 74 |
| Transducer length I ₁ [mm] | | 0 | 25 | 32,5 |
| Thread length I _t [mm] | | 60 | 49 | 47,5 |
| Connector area I _c [mm] | | | 10 | |

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

Mounting flange, 30 mm BF 30-F Mounting flange with dead stop, 30 mm

BF 5-30 Universal mounting bracket for cylindrical sensors with a diameter of

BF 30

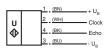
UVW90-M30 Ultrasonic deflector (only UB500... and UB2000...) UVW90-K30 Ultrasonic deflector (only UB500... and UB2000...)

V1-G-2M-PVC Cable socket, M12, 4-pin, PVC cable V1-W-2M-PVC Cable socket, M12, 4-pin, PVC cable

Electrical Connection



UB2000-30GM-H3-V1 UB4000-30GM-H3-V1 UB500-30GM-H3-V1 UB6000-30GM-H3-V1



2 = Emitter pulse input
4 = Echo propagation time output
Core colours in accordance with EN 60947-5-2.



Wire colors in accordance with EN 60947-5-2

| 1 | BN | (browi |
|---|----|--------|
| 2 | WH | (white |
| 3 | BU | (blue) |
| 4 | DV | (blook |













Properties

- Ø30 mm housing
- Powerful material detection
- **■** Fast response
- DC, 3 switching outputs
- **■** Cable version

Your Benefit

- Short-barrel design
- Maximum possible material burnthrough power
- Excellent for thick plastics and cardboard
- One sensor identifies zero-, singleand double-sheets

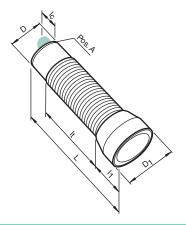
Technical Data

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

| Model Number | UDC-30GM-085-3E3 |
|---------------------------|--|
| Sensing range | 50 150 mm , optimal distance: 80 mm |
| Transducer frequency | 85 kHz |
| Operating voltage | 18 30 V DC , ripple 10 % _{SS} |
| No-load supply current | < 200 mA |
| Output type | 3 switch outputs PNP, NC |
| Rated operational current | 3 x 100 mA, short-circuit/overload protected |
| Switch-on delay | approx. 30 ms |
| Switch-off delay | approx. 30 ms |
| Pulse extension | min. 120 ms programmable |
| Input type | Function input |
| LED green | Display: single-layer material detected |
| LED yellow | Display: no material (air) |
| LED red | Display: 2-layer or multi-layer material detected |
| Ambient temperature | 0 50 °C (32 122 °F) |
| Material | |
| Housing | nickel plated brass; plastic components: PBT |
| Transducer | epoxy resin/hollow glass sphere mixture; polyurethane foam |
| Protection degree | IP65 |
| Connection type | cable PVC , 2 m |
| | |

| Approvals and Certificates | | | | |
|---|--|--|--|--|
| UL approval | cULus Listed, General Purpose, Class 2 Power Source | | | |
| CSA approval | cCSAus Listed, General Purpose, Class 2 Power Source | | | |
| Dimensions | | | | |
| Length L [mm] | 88 / 52 | | | |
| Diameter D [mm] | 30 | | | |
| Transducer diameter D ₁ [mm] | 40 | | | |
| Transducer length I ₁ [mm] | 25 | | | |
| Thread length I _t [mm] | 41 / 27 | | | |
| Connector area I _C [mm] | 0 | | | |
| LED position | Pos. C | | | |

This and more accessories can be found in chapter 3.5 from page 673 **Accessories** See pages from 972 ... for cordsets See pages 1068 ... for mounting aids MH-UDB02 Mounting bracket for double sheet metal monitor UDB-Cable-2M Extension cable UDB-Cable-1M Extension cable

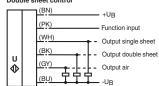


Electrical Connection



UDC-30GM-085-3E3





For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | MH-UDB01 |
|--------------|--|
| Material | Stainless steel |
| Description | Rotatable mounting bracket with angle scale for ultrasonic double sheet control. |

Technical Data

For detailed data and product description, see the data sheet at ${\it www.pepperl-fuchs.com}$



| Model number | M-105 |
|--------------|---|
| Material | PTFE |
| Description | Universal mounting bracket for cylindrical sensors with Ø 30 mm and a thread that extends to the front end of the sensor (UB/UC300, -500, and -2000). |

- Secure fastening
- Easy installation
- Robust design
- **Resistant to chemicals**

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | PA-02 |
|--------------|--|
| Material | PVC |
| Description | Mounting flange for all square-shaped sensors in the FP series |

- Secure fastening
- Easy installation
- Robust design

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Common data | |
|-------------|---|
| Material | PA |
| Description | Plastic nuts with centering ring for vibration-free mounting of cylindrical sensors. These plastic nuts must be used in applications where a sensor is affixed at the front third of the housing, and operated at temperatures < 0 °C. |

| Model number | | M12K-VE | M18K-VE | M30K-VE |
|---------------------|-------|---------|---------|---------|
| For sensor diameter | 12 mm | • | | |
| | 18 mm | | • | |
| | 30 mm | | | • |

.5



Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

| Common data | |
|-------------|--|
| Material | PMMA |
| Description | Ultrasonic deviation reflector for cylindrical ultrasonic sensors. The ultrasonic deviation reflector has an opening across the entire width at the lower end of the inclined position. Any falling dust particles cannot collect in the ultrasonic deviation reflector. This ensures ongoing operation even in dusty environments. |

| Model number | | UVW90-K18 | UVW90-K30 |
|-----------------------------|-------|-----------|-----------|
| For sensors from the series | -18GM | • | |
| | -30GM | | • |

■ Clamp mounting

- 90° sound deflection for difficult mounting conditions
- Universal mounting position

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



UVW90-M12 Stainless steel Ultrasonic deviation reflector for cylindrical ultrasonic sensors in the -12GM Series.

Suitable for universal mounting

- 90° sound deflection for difficult mounting conditions
- Universal mounting position

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | UVW90-M30 |
|--------------|---|
| Material | Stainless steel |
| Description | Focusing ultrasonic deviation reflector for cylindrical ultrasonic sensors in the -30GM series. |

- Suitable for universal mounting
- 90° sound deflection for difficult mounting conditions
- Universal mounting position
- Ultrasonic focusing effect
- Increase in detection range
- (through focus)
 approx. 40% with UB/UC500
- (measurement L = 10 mm)
 approx. 20% with UB/UC2000 (measurement L = 35 mm +/- 5 mm)

Description

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



UC-30GM-TEMP Model number Function

External temperature probe

As an alternative to the supplied temperature probe, the UC-30GM-TEMP external temperature probe can be connected to LUC4T-type ultrasonic sensors. The UC-30GM-TEMP temperature probe can be used to detect the ambient temperature of the measurement path, irrespective of the sensor mounting conditions, with a view to minimizing temperature effects to the greatest extent possible.

- For LUC4T-type ultrasonic sensors
- 8 mm connector
- Swivel-free single-hole mounting

Technical Data

Description

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



Common data External temperature probe **Function**

As an alternative to the supplied temperature probe, this external temperature probe can be connected to LUC4T-type ultrasonic sensors.

The LUC4-Z30 sensor can be used to detect the ambient temperature of the measurement path, in line with the process and irrespective of the mounting conditions of the sensor, with a view to minimizing temperature effects to the greatest extent possible.

- For LUC4T-type ultrasonic fill level sensors
- 8 mm connector.
- Single-hole mounting in thread: G½A (LUC4-Z30-G2V) ½NPT (LUC4-Z30-N2V).

| Model number | | LUC4-Z30-G2V | LUC4-Z30-N2V |
|--------------|--------|--------------|--------------|
| Thread | G1/2A | • | |
| | 1/sNPT | | |

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | USB-0.8M-PVC ABG-SUBD9 |
|--------------|--|
| Function | USB/RS232 interface adapter |
| Description | Interface adapter USB-0.8M-PVC ABG-SUBD9 provides an RS232 interface at a free USB port. |
| | It can be connected to a free USB port on the computer either directly or using the 800 mm USB extension cable provided. |
| | The available interface cable can then be connected to the 9-pin SUB-D plug in the |



For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

| Model number | UC-F43-R2 |
|--------------|----------------|
| Function | RS232 interfac |
| Description | The device can |

The device can be switched between the V17 cable connection box and the V17 plug connection at the sensor for the Teach-in process.

The parameterized functions are retained after the programming unit has been removed and/or the operating voltage has been turned off at the sensor.

- For sensors UC300-F43-2KIR2-V17 and UC2000-F43-2KIR2-V17.
- Simple intermediate switching in the sensor connection line.

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | UC-30GM-R2 |
|--------------|--|
| Function | Interface cable |
| Description | Interface cable UC-30GM-R2 enables type UC30GMR2-V15 ultrasonic sensors to be parameterized using service program ULTRA 2001. The cable establishes a connection between the PC's internal RS232 interface and the connector of the temperature/programming plug at the sensor |

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | UC-18/30GM-IR |
|--------------|-----------------|
| Function | Interface cable |

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | UC-30GM-PROG |
|--------------|--|
| Function | Extension cable |
| Description | Extension cable UC-30GM-PROG enables UC30GM and LUC-type ultrasonic sensors to be taught in, even at installation locations that are difficult to access. The sensor end of the extension cable is connected to the socket for the temperature plug at the sensor. Sensors can be programmed at the other end of the cable using the temperature plug. |

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Common data | |
|----------------|---|
| Connectors | M8 x 1, male connector, 3-pin and M8 x 1, female connector, 3-pin |
| Cable material | PUR |
| Cable color | black |
| Description | Extension cable for ultrasonic double sheet monitors |

| Model number | | UDB-Cable-1M | UDB-Cable-2M | |
|--------------|-----|--------------|--------------|--|
| Cable length | 1 m | • | | |
| | 2 m | | • | |

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For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | 3RX4000-PF |
|--------------|--|
| Function | PC interface |
| Description | Using this PC interface and the corresponding software, you can adapt ultrasonic sensors of a specific series to the requirements of your application. It is also possible to parameterize several sensors identically. The start and end of a sensor's detection range can be stored and copied to other sensors at the press of a button. |

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com



| Model number | UB-PROG2 |
|--------------|---|
| Function | Programming unit |
| Description | The device can be switched between the V15 cable connection box and the V15 plug connection at the sensor for the Teach-in process. |
| | The trip points/measurement window and the output function are taught in using sensors A1 and A2 in accordance with the diagram provided. |
| | The taught in trip points and functions are retained after the programming unit has been removed and/or the operating voltage has been turned off at the sensor |

- Simple Teach-in of trip points A1/ A2 or the measurement window.
- Easy selection of output function: window operation, NO contact/NC contact function. One trip point, NO contact/NC contact function. Monitoring of detection range.

For the following types of ultrasonic sensors:

| UB300 | | | |
|---------------|---------|-----------|------|
| UB400 | -12GM | | |
| UB500 | -18GM40 | -E4 | |
| UB800 | -18GM75 | -E5 | -V15 |
| UB1000 | -30GM | -I | -۷15 |
| UB2000 | -F42(S) | -U | |
| UB4000 | -F54 | | |
| UB6000 | | | |

... where the Teach-in input is at pin 2.

Technical Data

For detailed data and product description, see the data sheet at www.pepperl-fuchs.com

UB-PROG3



- Model number **Function** Programming unit Description The unit can be switched between the V15 cable connection box and the V15 plug connection at the sensor for the Teach-in process. The trip points/measurement window and the output function are taught in using sensors A1 and A2 in accordance with the diagram provided. The taught in trip points and functions are retained after the programming unit has been removed and/or the operating voltage has been turned off at the sensor.
- Simple Teach-in of trip points A1/ A2 or the measurement window.
- Easy selection of output function: window operation, NO contact/NC contact function. One trip point, NO contact/NC contact function. Monitoring of detection range.

For the following types of ultrasonic sensors:

| | | -E01 | |
|-----------------|---------|------|------|
| UB500 UB1000 | -18GM75 | -E23 | -V15 |
| | | -E6 | |
| | | _67 | |

... where the Teach-in input is at pin 2.