

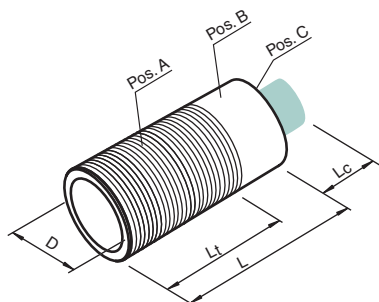


Properties

- 300 mm and 800 mm sensing range versions
- DC, switching output
- Ø18 mm cylindrical housing
- Connector version

Your Benefit

- Short barrel length for space-restricted mounting
- Ultra bright rear-view LEDs
- Flexible configuration via Teach-wire or UB-PROG2 pushbutton



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	≤ 20 mA
Rated operational current	200 mA, short-circuit/overload protected
Input type	1 program input
LED green	Power on
LED yellow	indication of the switching state flashing: program function object detected
LED red	permanently red: Error red, flashing: program function, object not detected
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	brass, nickel-plated
Transducer	epoxy resin/hollow glass sphere mixture; foam polyurethane, cover PBT
Protection degree	IP67
Connection type	Device connector M12 x 1, 4-pin



Model Number

		UB300-18GM40-E5-V1	UB300-18GM40-E4-V1	UB800-18GM40-E4-V1	UB800-18GM40-E5-V1
Sensing range	green = preferred type 30 ... 300 mm 50 ... 800 mm	●	●	●	●
Transducer frequency	approx. 390 kHz approx. 255 kHz	●	●	●	●
Output type	1 switch output E4, NPN, NO/NC, programmable 1 switch output E5, PNP NO/NC, programmable	●	●	●	●
Switching frequency	≤ 13 Hz ≤ 4 Hz	●	●	●	●

Approvals and Certificates

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

Dimensions

Length L [mm]	39,2
Diameter D [mm]	18
Thread length l _t [mm]	24,5
Connector area l _c [mm]	10
LED position	Pos. C

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

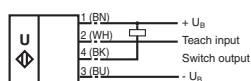
UB-PROG2	Programming unit
OMH-04	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm
BF 18	Mounting flange, 18 mm
BF 18-F	Mounting flange with dead stop, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V1-G-2M-PVC	Cable socket, M12, 4-pin, PVC cable
V1-W-2M-PUR	Cable socket, M12, 4-pin, PUR cable

Electrical Connection



UB300-18GM40-E4-V1
UB800-18GM40-E4-V1

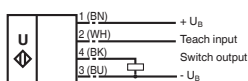
Standard symbol/Connections:
(version E4, npn)



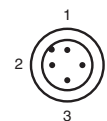
Core colours in accordance with EN 60947-5-2.

UB800-18GM40-E5-V1
UB300-18GM40-E5-V1

Standard symbol/Connections:
(version E5, pnp)



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



Wire colors in accordance with EN 60947-5-2

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



Properties

- 300 mm and 800 mm sensing range versions
- DC, analog output
- Ø18 mm cylindrical housing
- Connector version

Your Benefit

- Short barrel length for space-restricted mounting
- Ultra bright rear-view LEDs
- Flexible configuration via Teach-wire or UB-PROG2 pushbutton

Technical Data

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

General Data

No-load supply current	≤ 20 mA
Resolution	0.4 mm at max. sensing range
Deviation of the characteristic curve	± 1 % of full-scale value
Input type	1 program input
LED green	Power on
LED yellow	permanently yellow: object in the evaluation range yellow, flashing: program function, object detected
LED red	permanently red: Error red, flashing: program function, object not detected
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	brass, nickel-plated
Transducer	epoxy resin/hollow glass sphere mixture; foam polyurethane, cover PBT
Protection degree	IP67
Connection type	Device connector M12 x 1 , 4-pin



Model Number

		UB300-18GM40-I-V1	UB300-18GM40-U-V1	UB800-18GM40-I-V1	UB800-18GM40-U-V1
Sensing range	green = preferred type 30 ... 300 mm 50 ... 800 mm	●	●		●
Transducer frequency	approx. 390 kHz approx. 255 kHz	●	●		●
Operating voltage	10 ... 30 V DC , ripple 10 % _{SS} 15 ... 30 V DC , ripple 10 % _{SS}	●		●	●
Output type	1 analog output 0 ... 10 V 1 analog output 4 ... 20 mA	●	●	●	●

Approvals and Certificates

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

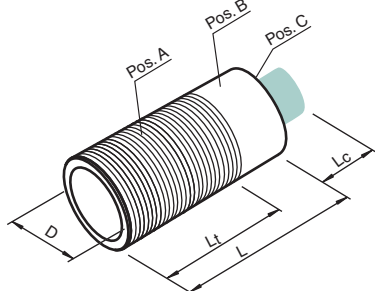
Dimensions

Length L [mm]	39,2
Diameter D [mm]	18
Thread length l _t [mm]	24,5
Connector area l _c [mm]	10
LED position	Pos. C

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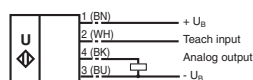
Electrical Connection



UB300-18GM40-U-V1
UB800-18GM40-U-V1

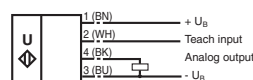
UB300-18GM40-I-V1
UB800-18GM40-I-V1

Standard symbol/Connections:
(version U)

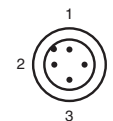


Core colors in accordance with EN 60947-5-2.

Standard symbol/Connections:
(version I)



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



Wire colors in accordance with EN 60947-5-2

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