

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	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	●	●	●	●

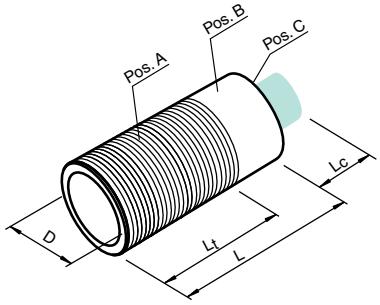
Dimensions	
Length L [mm]	39,2
Diameter D [mm]	18
Thread length l_t [mm]	24,5
Connector area l_c [mm]	10
LED position	Pos. C

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



Accessories

This and more accessories can be found in chapter 3.5 from page 676
See pages from 974 ... for cordsets
See pages 1074 ... for mounting aids

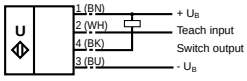
UB-PROG2	Programming unit
OMH-04	Mounting aid for round steel ø 12 mm or sheet 1.5 mm ... 3 mm
BF 18	Mounting flange, 18 mm
BF 18-F	Mounting flange with dead stop, 18 mm
BF 5-30	Universal mounting bracket for cylindrical sensors with a diameter of 5 ... 30 mm
V1-G-2M-PVC	Cable socket, M12, 4-pin, PVC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

Electrical Connection



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

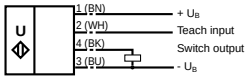
Standard symbol/Connections:
(version E4, npn)



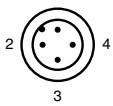
Core colours in accordance with EN 60947-5-2.

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)

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