

# Sensors and Systems

Edition 3.0



Your automation, our passion.

**pf** PEPPERL+FUCHS



### Properties

- Emitter / receiver set
- Miniature F77 housing
- 800 mm sensing range
- DC, 3-wire switching output
- Connector version

### Your Benefit

- Best-in-class immunity to acoustic interference
- Excellent for detection of clear objects
- Fast, 100Hz switching frequency

### Technical Data

For detailed data and product description refer to the data sheets at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)

<b>Model Number</b>	<b>UBE800-F77-SE2-V31</b>
Sensing range	0 ... 800 mm emitter/receiver spacing
Transducer frequency	approx. 300 kHz
Operating voltage	20 ... 30 V DC , ripple 10 % <sub>SS</sub> ; 12 ... 20 V DC reduced sensitivity by 80 %
No-load supply current	≤ 20 mA
Output type	1 switch output PNP, NO
Rated operational current	200 mA , short-circuit/overload protected
Switching frequency	100 Hz
Input type	1 program input (receiver)
LED green	Power on ( emitter )
LED yellow	switching state ( receiver )
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Material	
Housing	Polycarbonate
Transducer	epoxy resin/hollow glass sphere mixture; polyurethane foam
Protection degree	IP67
Connection type	M8 x 1 connector , 4-pin



### Approvals and Certificates

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

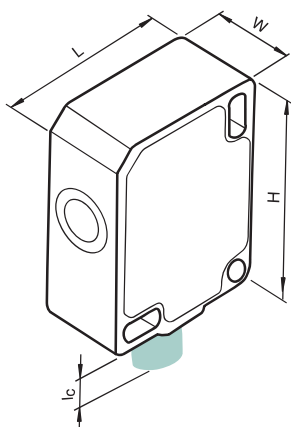
### Dimensions

Length L [mm]	23
Width W [mm]	12
Height H [mm]	31
Connector area l <sub>c</sub> [mm]	9

### 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

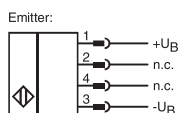
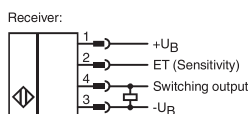
<b>UB-PROG4-V31</b>	Programming unit
<b>OMH-ML7-01</b>	Mounting bracket
<b>V31-GM-2M-PVC</b>	M8, 4-pin socket, PVC cable
<b>V31-WM-2M-PVC</b>	M8, 4-pin socket, PVC cable



### Electrical Connection



UBE800-F77-SE2-V31



Wire colors in accordance with EN 60947-5-2

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

Date of issue 2015-04-08