

Model Number

UBE15M-F54-H2-V1

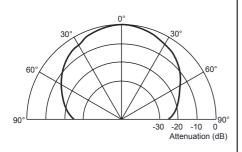
Multi-head system

Features

- Large sensing range
- Large possible lateral distance between emitter and receiver •
- Separate evaluation .

Diagrams

Direction characteristics



General specifications
Sensing range
Transducer frequency
Angle of divergence
Temperature drift of echo propagation delay
Electrical specifications
Operating voltage U _B
No-load supply current I0
Output
Output type
Ambient conditions
Ambient temperature
Storage temperature
Mechanical specifications
Connection type
Degree of protection
Material

Technical data

Electrical specifications	
Operating voltage U _B	10 30 V DC , ripple 10 % _{SS}
No-load supply current I0	\leq 15 mA (typ. 10 mA at U _B = 24 V DC)
Output	
Output type	1 pulse output for echo run time, open collector NPN, short- circuit proof 0 level (active): $U_{OL} \le 2 \text{ V}$, $I_{OL} \le 15 \text{ mA}$ 1 level (inactive): $U_{OH} = U_B$ (pull-up R = 330 kOhm)
Ambient conditions	
Ambient temperature	0 50 °C (32 122 °F)
Storage temperature	-40 85 °C (-40 185 °F)
Mechanical specifications	
Connection type	Connector M12 x 1, 4-pin
Degree of protection	IP30
Material	
Housing	PBT
Mass	110 g
Compliance with standards and directives	
Standard conformity	
Standards	EN 60947-5-2:2007 IEC 60947-5-2:2007

approx. 40 kHz \pm 45 $^{\circ}$ at -6 dB 0.2 %/K

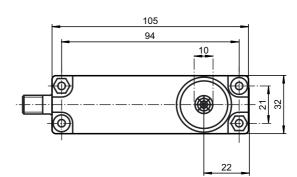
0 ... 15000 mm , emitter - receiver synchronised

Approvals and certificates

UL approval CSA approval CCC approval

cULus Listed, General Purpose cCSAus Listed, General Purpose CCC approval / marking not required for products rated ≤36 V

Dimensions



Bore hole and countersinking for screws/hexagon M4



Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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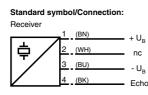
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UBE15M-F54-H2-V1

Electrical Connection



Core colours in accordance with EN 60947-5-2

Pinout



Function

The receiver is part of a complete system consisting of receiver, emitter, and controller

Transmitter	UBE15M-F54-H1-V1
• • •	

Controller: UH3-16E4A-K15-R3

In real mode, the transmitter and receiver will not be not aligned to each other. This reduces the detection range that can be achieved.

The characteristic response curve to the side illustrates examples of the detection range of the system under the following operating conditions.

- The transmitter and receiver are arranged so they lie parallel opposite each other. The graph shows the detection range as a function of lateral offset.
- The receiver is arranged vertically downward, while the emitter is arranged in the direction of the receiver. The graph shows the detection range as a function of the angle of incidence.

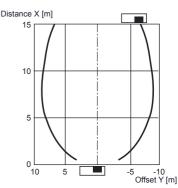
This makes it possible to evaluate the detection range of the system as a function of the positioning of the transmitter and receiver for conditions that will occur in practical usage.



Cable sockets with built-in indicator LEDs must not be used to connect this device!

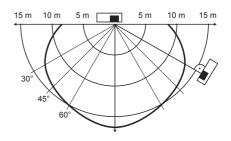
Additional Information

Characteristic response curve



Permissible distance (offset) between the optical axis of the emitter and receiver

Characteristic response curve



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