

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



Technical data	
General specifications	
Sensing range	0
Transducer frequency	app
Angle of divergence	± 4
Temperature drift of echo propagation delay	0.2
Electrical specifications	
Operating voltage U _B	10.
No-load supply current I ₀	≤ 1
Output	
Output type	1 pi circ 0 le 1 le
Ambient conditions	
Ambient temperature	0
Storage temperature	-40
Mechanical specifications	
Connection type	Cor
Degree of protection	IP3
Material	
Housing	PB
Mass	110
Compliance with standards and directives	
Standard conformity	
Standards	EN IEC
Approvals and certificates	
UL approval	cUL
CSA approval	cCS
CCC approval	CC

.. 15000 mm, emitter - receiver synchronised prox. 40 kHz 15 ° at -6 dB %/K

... 30 V DC , ripple 10 %_{SS} 15 mA (typ. 10 mA at U_B = 24 V DC)

pulse output for echo run time, open collector NPN, shortcuit proof evel (active): U_{OL} ≤ 2 V, I_{OL} ≤ 15 mA evel (inactive): U_{OH} = U_B (pull-up R = 330 kOhm)

.. 50 °C (32 ... 122 °F) ... 85 °C (-40 ... 185 °F)

onnector M12 x 1, 4-pin 30

Т 0 g

> 60947-5-2:2007 + A1:2012 C 60947-5-2:2007 + A1:2012

Lus Listed, General Purpose SAus Listed, General Purpose CCC approval / marking not required for products rated \leq 36 V

Dimensions



Bore hole and countersinking for screws/hexagon M4



Electrical Connection

Standard symbol/Connection:



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

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

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Pinout

Connector V1

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!



Characteristic response curve



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

Characteristic response curve



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