

reclinical uata
General specifications
Sensing range
Standard target plate
Transducer frequency
Electrical specifications
Operating voltage U _B
No-load supply current I0
Input
Input type
Output
Output type
Rated operating current Ie
Voltage drop U _d
Switch-on delay t _{on}
Switching frequency f
Ambient conditions
Ambient temperature
Storage temperature
Mechanical specifications
Connection type
Degree of protection
Material
Housing
Transducer
Mass
Compliance with standards and directives
Standard conformity
Standards

Approvals and certificates

UL approval CSA approval

CCC approval

Dimensions

100 ... 300 mm 100 mm x 100 mm approx. 255 kHz

10 ... 30 V DC , ripple 10 %SS ≤ 20 mA

1 program input [receiver] switch point 1: $-U_B \dots +1 V$, switch point 2: $+6 V \dots +U_B$ input impedance: > 4.7 k Ω pulse duration: $\ge 1 s$ 1 test input [emitter] emitter deactivated: +6 V ... +UB input impedance: > 4.7 k Ω

PNP, NO 200 mA , short-circuit/overload protected \leq 3 V < 5 ms $\leq 100 \text{ Hz}$

-25 ... 70 °C (-13 ... 158 °F) -40 ... 85 °C (-40 ... 185 °F)

Connector M12 x 1 , 4-pin IP68 / IP69K

Stainless steel 1.4435 / AISI 316L O-ring for cover sealing: EPDM PTFE (diaphragm surface) 25 g

EN 60947-5-2:2007 + A1:2012 IEC 60947-5-2:2007 + A1:2012

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



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

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Startup and parameterising

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In the delivery status, the receiver is pr-configured for a 300 mm spacing between emitter and receiver. If the through-beam ultrasonic barrier is operated at different spacing, a TEACH-IN procedure has to be carried out.

TEACH-IN

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- 1. Install both, emitter and receiver of the through-beam ultrasonic barrier at the desired positions.
- 2. Adust both devices exactly to each other and fix the adjustment.
- 3. Remove all obstacles from between the emitter and the receiver.
- 4. Connect the TEACH input of the receiver with $-U_B$ for at least 2 s. The receiver evaluates now the signal strength of the clear air path.
- 5. Place the object to be detected at the desired position between emitter and receiver.
- Connect the TEACH input of the receiver with +U_B for at least 2 s. The receiver evaluates the siognal stength of the attenuated air path and determines the optimal switching threshold. This switching threshold is then stored into the non-volatile memory of the receiver.
- 7. Disconnect the TEACH input from $+U_B$.

