

Ultrasonic transducer

USI2500-27X13E-3M-V3

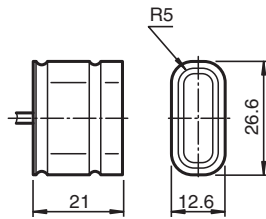


- Extremely compact dimensions
- Elliptic sound cone
- 3 m cable length
- Temperature range up to 80 °C (176 °F)

Ultrasonic transducer with cable 3 m, exclusively for the USi-safety evaluation unit



Dimensions



Technical Data

General specifications	
Type	Ultrasonic transducer
Ambient conditions	
Ambient temperature	-40 ... 80 °C (-40 ... 176 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Mechanical specifications	
Connection type	fixed cable with plug
Housing length	21 mm
Degree of protection	IP69 for the front surface , otherwise IP67
Material	
Housing	PA 6.6
Transducer	PBT , silicone
Connector	
Threading	M8 x 1
Number of pins	3
Material	PUR
Cable	

Release date: 2023-12-06 Date of issue: 2023-12-06 Filename: 70131324_eng.pdf

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

Technical Data

Cable diameter		2 mm
Bending radius		> 5 x cable diameter, cable fixed > 10 x cable diameter, cable moving
Drag chain suitability		bending cycles for r > 10 x cable diameter: 200000 bending cycles for r ≥ 50mm: ca. 1200000 acceleration max. 12 m/s ² traverse distance horizontal ≤ 50 cm traverse distance vertical ≤ 50 cm moving speed 12 m/s
Tension force		max. 20 N
Material		PUR
Color		black
Length	L	3 m
Mass		35 g

Installation Conditions

Note for Mounting

The ultrasonic transducer can be installed in the mounting brackets available from Pepperl+Fuchs as well as in mounting brackets designed in-house. The sensor must only be fixed in place using the factory-fitted O-rings. These are mainly used for acoustic decoupling.

Commissioning

This component is only intended for use in conjunction with the ultrasonic sensor system USi-safety. Further details, mounting and commissioning instructions for the safe ultrasonic sensor system USi-safety can be found in the original instructions on the respective product page at www.pepperl-fuchs.com.

Release date: 2023-12-06 Date of issue: 2023-12-06 Filename: 70131324_eng.pdf