

# Ultrasonic transducer

## USI2500-27X13E-1,5M-V3

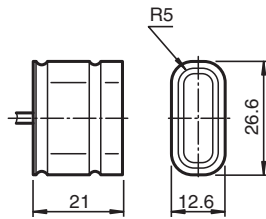


- Extremely compact dimensions
- Elliptic sound cone
- 1.5 m cable length
- Temperature range up to 80 °C (176 °F)

Ultrasonic transducer with cable 1.5 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	

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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 $r \geq 50$ mm: ca. 1200000 acceleration max. 12 m/s <sup>2</sup> traverse distance horizontal $\leq 50$ cm traverse distance vertical $\leq 50$ cm moving speed 12 m/s
Tension force		max. 20 N
Material		PUR
Color		black
Length	L	1.5 m
Mass		25 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](http://www.pepperl-fuchs.com).