



Ultrasonic transducer

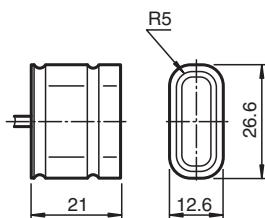
USI2500-27X13E-1,5M-V3

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

Ultrasonic transducer with 1.5 m cable, exclusively for the USi ultrasonic sensor systems



Dimensions



Technical Data

General specifications

Type	Ultrasonic transducer
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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
Degree of protection	IP69 for the front surface , otherwise IP67

Material

Housing	PA 6.6
Transducer	PBT , silicone

Connector

Threading	M8 x 1
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Number of pins	3
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Material	PUR
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Cable

Cable diameter	2 mm
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Bending radius	> 5 x cable diameter, cable fixed > 10 x cable diameter, cable moving
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Drag chain suitability	bending cycles for $r > 10 \times$ cable diameter: 200000 bending cycles for $r \geq 50\text{mm}$: ca. 1200000 acceleration max. 12 m/s^2 traverse distance horizontal $\leq 50 \text{ cm}$ traverse distance vertical $\leq 50 \text{ cm}$ moving speed 12 m/s
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Tension force	max. 20 N
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Technical Data

Material	PUR
Color	black
Length	L 1.5 m
Mass	25 g
Dimensions	
Height	26.6 mm
Width	12.6 mm
Length	21 mm

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 or USi-industry. Further details, mounting and commissioning instructions can be found in the corresponding documentation on the relevant product page at www.pepperl-fuchs.com.