LASER OPTOACOUSTIC LABORATORY

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PLU-6P-02 k Roller Transducer

Roller transducer with changeable opto-acoustic converter. Transducer is used to determine a longitudinal acoustic speed wave with normal input of ultrasound waves. The transducer is designed for manual or automated control of large flat surfaces (defectoscopy of metals, alloys, coatings, plastics, etc.).

1. Specifications:

Number of elements: 1

Frequency band: 0.1 – 6 MHz

Acoustic beam width: 6 mm

Probe pulse duration: ~ 70 ns

Maximum penetration depth:

- for aluminum alloy – 400 mm

- for composite materials – 35 mm

Overall dimensions: 110 mm x 150 mm x 110 mm

Contact surface size: 12 mm

Weight: 600 g

Connectors: DB9M, BNC, SMA (fiber optic connector)

Cable length: from 1.5 m to 7 m

Depending on the modification the power and type of backing of the transducer are different.

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Can be part of an automated scanning system.

Power supply (part of UDL-2M defectoscope): ± 5 V DC

Power consumption: less than 200 mW

Terms of Use:

- ambient temperature + 15 ºC - + 35 ºC

- relative humidity at + 25 ºC: 50 - 80%

2. Configuration:

- Opto-acoustic converter: changeable
- Optical beam focusing: optional