



П121 TRANSDUCERS

single angle beam for flaw detection

Prism of Plexiglas

Small arrow



High efficiency on stainless steels and materials with large ultrasonic attenuation

High sensitivity

Low noise

Unique geometry

Horizontal version

PHOTO	NAME	FREQUENCY	ENTRY ANGLE	ARROW	PIEZO-CRYSTAL	PRICE WITH THE VAT RUB/PIECE
	П121-2,5-40 PLEX	2,5 MHz	40°	11,0 mm	Ø12 mm	6 500
	П121-2,5-45 PLEX	2,5 MHz	45°	11,5 mm	Ø12 mm	6 500
	П121-2,5-50 PLEX	2,5 MHz	50°	12,0 mm	Ø12 mm	6 500
	П121-2,5-60 PLEX	2,5 MHz	60°	10,5 mm	Ø12 mm	6 500
	П121-2,5-65 PLEX	2,5 MHz	65°	11,0 mm	Ø12 mm	6 500
	П121-2,5-70 PLEX	2,5 MHz	70°	12,0 mm	Ø12 mm	6 500
	П121-5,0-40 PLEX	5 MHz	40°	7,0 mm	Ø6 mm	6 500
	П121-5,0-45 PLEX	5 MHz	45°	7,0 mm	Ø6 mm	6 500
	П121-5,0-50 PLEX	5 MHz	50°	7,5 mm	Ø6 mm	6 500
	П121-5,0-60 PLEX	5 MHz	60°	6,5 mm	Ø6 mm	6 500
	П121-5,0-65 PLEX	5 MHz	65°	7,0 mm	Ø6 mm	6 500
	П121-5,0-70 PLEX	5 MHz	70°	7,5 mm	Ø6 mm	6 500
П121 PLEX with the working surface for curvature of pipes Ø32...159 mm						7 500



П121 TRANSDUCERS OF HIGH WEAR-RESISTANCE

single angle beam for flaw detection

The best economic feasibility of application

The resource of operation is up to 8 times more

Prism from innovative special polymer

Small arrow



High efficiency on stainless steels and materials with large ultrasonic attenuation

High sensitivity

Low noise

Unique geometry

Horizontal and vertical version

PHOTO	NAME	FREQUENCY	ENTRY ANGLE	ARROW	PIEZO-CRYSTAL	PRICE WITH THE VAT RUB/PIECE
	П121-2,5-40 SENDAST	2,5 MHz	40°	10,0 mm	Ø12 mm	10 890
	П121-2,5-45 SENDAST	2,5 MHz	45°	10,5 mm	Ø12 mm	10 890
	П121-2,5-50 SENDAST	2,5 MHz	50°	11,0 mm	Ø12 mm	10 890
	П121-2,5-60 SENDAST	2,5 MHz	60°	9,5 mm	Ø12 mm	10 890
	П121-2,5-65 SENDAST	2,5 MHz	65°	10,0 mm	Ø12 mm	10 890
	П121-2,5-70 SENDAST	2,5 MHz	70°	11,0 mm	Ø12 mm	10 890
	П121-5,0-40 SENDAST	5 MHz	40°	7,0 mm	Ø6 mm	10 890
	П121-5,0-45 SENDAST	5 MHz	45°	7,0 mm	Ø6 mm	10 890
	П121-5,0-50 SENDAST	5 MHz	50°	7,5 mm	Ø6 mm	10 890
	П121-5,0-60 SENDAST	5 MHz	60°	5,5 mm	Ø6 mm	10 890
	П121-5,0-65 SENDAST	5 MHz	65°	6,0 mm	Ø6 mm	10 890
	П121-5,0-70 SENDAST	5 MHz	70°	6,5 mm	Ø6 mm	10 890
	П121-5,0-72 SENDAST	5 MHz	72°	7,0 mm	Ø6 mm	10 890
	П121-5,0-75 SENDAST	5 MHz	75°	8,0 mm	Ø6 mm	10 890
П121 PLEX with the working surface for curvature of pipes Ø32...159 mm						11 890



П121 TRANSDUCERS OF HIGH WEAR-RESISTANCE

meet Euro/American standards

single angle beam for flaw detection

The best economic feasibility of application

The resource of operation is up to 8 times more

Prism from innovative special polymer

Small arrow

High efficiency on stainless steels and materials with large ultrasonic attenuation

High sensitivity

Low noise

Unique geometry

Horizontal and vertical version

PHOTO	NAME	FREQUENCY	ENTRY ANGLE	ARROW	PIEZO-CRYSTAL	PRICE WITH THE VAT RUB/PIECE
	П121-2,0-45-8x9 SENDAST	2 MHz	45°	10,5 mm	□8x9 mm	10 890
	П121-2,0-60-8x9 SENDAST	2 MHz	60°	9,5 mm	□8x9 mm	10 890
	П121-2,0-70-8x9 SENDAST	2 MHz	70°	11,0 mm	□8x9 mm	10 890
	П121-4,0-45-8x9 SENDAST	4 MHz	45°	10,5 mm	□8x9 mm	10 890
	П121-4,0-60-8x9 SENDAST	4 MHz	60°	9,5 mm	□8x9 mm	10 890
	П121-4,0-70-8x9 SENDAST	4 MHz	70°	11,0 mm	□8x9 mm	10 890
П121 PLEX with the working surface for curvature of pipes Ø32...159 mm						11 890

PHOTO	NAME	FREQUENCY	ENTRY ANGLE	ARROW	PIEZO-CRYSTAL	PRICE WITH THE VAT RUB/PIECE
	П121-2,0-45-18x18 SENDAST	2 MHz	45°	15,0 mm	□18x18 mm	13 100
	П121-2,0-60-18x18 SENDAST	2 MHz	60°	15,0 mm	□18x18 mm	13 100
	П121-2,0-70-18x18 SENDAST	2 MHz	70°	16,0 mm	□18x18 mm	13 100
П121 PLEX with the working surface for curvature of pipes Ø32...159 mm						14 100



ULTRASONIC TRANSDUCERS FOR NON-DESTRUCTIVE TESTING
DEVELOPMENT AND PRODUCTION

«3T» LLC ☒ Moskovskoe Shosse, 96, Serpukhov, Moscow region, 142204, Russia
Tel: +7 (495) 972-33-03, +7 (916) 115-63-98 E-mail: info@3tsensor.com Website: www.3tsensor.com

П111 TRANSDUCERS OF HIGH RESOLUTION

Straight beam, for thickness gaging and flaw detection

Thickness gauge signal (extremely short in time)
Increased adaptation to small thicknesses
High efficiency on stainless steels and materials with large ultrasonic attenuation
Minimum dead zone
High sensitivity
Low noise
Strong protector
Unique geometry

PHOTO	NAME	FREQUENCY	PIEZO-CRYSTAL	WORKING SURFACE	PRICE WITH THE VAT RUB/PIECE
	П111-1,25-18 SENDAST	1,25 MHz	Ø18 mm	Ø22 mm	9 500
	П111-1,8-18 SENDAST	1,8 MHz	Ø18 mm	Ø22 mm	9 500
	П111-2,5-10 SENDAST	2,5 MHz	Ø10 mm	Ø13 mm	7 300
	П111-2,5-12 SENDAST	2,5 MHz	Ø12 mm	Ø15 mm	7 300
	П111-5,0-6 SENDAST	5 MHz	Ø6 mm	Ø9 mm	7 300
	П111-5,0-8 SENDAST	5 MHz	Ø8 mm	Ø13 mm	7 300

meet Euro/American standards

PHOTO	NAME	FREQUENCY	PIEZO-CRYSTAL	WORKING SURFACE	PRICE WITH THE VAT RUB/PIECE
	П111-1,0-20 SENDAST	1 MHz	Ø20 mm	Ø24 mm	9 500
	П111-2,0-10 SENDAST	2 MHz	Ø10 mm	Ø13 mm	7 300
	П111-2,0-12 SENDAST	2 MHz	Ø12 mm	Ø15 mm	7 300
	П111-2,0-20 SENDAST	2 MHz	Ø20 mm	Ø24 mm	9 500
	П111-4,0-10 SENDAST	4 MHz	Ø10 mm	Ø13 mm	7 300
	П111-4,0-20 SENDAST	4 MHz	Ø20 mm	Ø24 mm	9 500



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TOFD TRANSDUCERS


for diffraction-time testing method

Complete analogues of imported TOFD transducers

Broadband signal (extremely short in time)

High sensitivity

Screwed fixation in TOFD prisms

PHOTO	NAME	FREQUENCY	PIEZO-CRYSTAL	SCREW	PRICE WITH THE VAT RUB/PIECE
	П113-2,0-12-M20 TOFD	2 MHz	Ø12 mm	M20	16 400
	П113-5,0-3-M12 TOFD	5 MHz	Ø3 mm	M12	14 600
	П113-5,0-3-U3/8 TOFD	5 MHz	Ø3 mm	3/8"	15 650
	П113-5,0-6-M12 TOFD	5 MHz	Ø6 mm	M12	14 600
	П113-5,0-6-U3/8 TOFD	5 MHz	Ø6 mm	3/8"	15 650
	П113-5,0-10-M20 TOFD	5 MHz	Ø10 mm	M20	16 400
	П113-5,0-12-M20 TOFD	5 MHz	Ø12 mm	M20	16 400



TOFD PRISMS OF HIGH WEAR RESISTANCE

The best economic feasibility of application
The resource of operation is up to 8 times more
Prism from innovative special polymer
Screwed fixation of transducers
Channels for contact liquid
Match Euro/American standard sizes

Angle beam for diffraction-time testing method

PHOTO	NAME	ENTRY ANGLE	SCREW	PRICE WITH THE VAT RUB/PIECE
	Prism TOFD-45-U3/8 SENDAST	45°	3/8"	5 850
	Prism TOFD-45-M12 SENDAST	45°	M12	5 850
	Prism TOFD-45-M20 SENDAST	45°	M20	6 900
	Prism TOFD-50-U3/8 SENDAST	50°	3/8"	5 850
	Prism TOFD-50-M12 SENDAST	50°	M12	5 850
	Prism TOFD-50-M20 SENDAST	50°	M20	6 900
	Prism TOFD-60-U3/8 SENDAST	60°	3/8"	5 850
	Prism TOFD-60-M12 SENDAST	60°	M12	5 850
	Prism TOFD-60-M20 SENDAST	60°	M20	6 900
	Prism TOFD-70-U3/8 SENDAST	70°	3/8"	5 850
	Prism TOFD-70-M12 SENDAST	70°	M12	5 850
	Prism TOFD-70-M20 SENDAST	70°	M20	6 900

Straight line, for sheet thickness gauging

Recommended for a high-precision method for determining the thickness by two bottom echo signals



PHOTO	NAME	MAX. STEEL SHEET THICKNESS	ENTRY ANGLE	SCREW	PRICE WITH THE VAT RUB/PIECE
	Prism TOFD-0-10-U3/8 SENDAST	10 mm	0°	3/8"	5 850
	Prism TOFD-0-10-M12 SENDAST	10 mm	0°	M12	5 850
	Prism TOFD-0-10-M20 SENDAST	10 mm	0°	M20	6 900
	Prism TOFD-0-20-U3/8 SENDAST	20 mm	0°	3/8"	7 600
	Prism TOFD-0-20-M12 SENDAST	20 mm	0°	M12	7 600
	Prism TOFD-0-20-M20 SENDAST	20 mm	0°	M20	8 900



CABLES OF INCREASED DURABILITY

for switching transducers with flaw detectors and thickness gauges

The highest chemical resistance
The highest thermal resistance
High flexibility

PHOTO	NAME	LENGTH	PRICE WITH THE VAT RUB/PIECE
	Lemo-Lemo PROFI cable single 1,2m	1,2 m	4 500
	Lemo-Lemo PROFI cable double 1,2m	1,2 m	9 000
	Lemo-Lemo PROFI cable Y-form 1,2m	1,2 m	7 000
	Lemo-Lemo PROFI cable single angular 1,2m	1,2 m	5 000
	Lemo-Lemo PROFI cable double angular 1,2m	1,2 m	10 000
	Lemo-Lemo PROFI cable Y-form angular-1 1,2m	1,2 m	7 500
	Lemo-Lemo PROFI cable Y-form angular-2 1,2m	1,2 m	8 000
	Lemo-Lemo PROFI cable Y-form angular-3 1,2m	1,2 m	8 500
On request, PROFI cables by the length of 1.0 m, 1.5 m, 1.8 m, 2.0 m, 2.5 m, 3.0 m are manufactured			








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T-SCUARES

for ultrasonic calibration block of CO-2, CO-3, V2 and COП

High straightness of the trajectory
High accuracy of setting and parameter determining
High speed of setting and parameter determining
High repeatability of setting and parameter determining
Rapid detection of azimuthal deflection

PHOTO	NAME	PRICE WITH THE VAT RUB/PIECE
	RELS CO-2 T-square	4 400
	RELS CO-3 T-square	4 400
	RELS V2 T-square	5 000
	RELS COП T-square	5 250
	OPORA CO-3 support	4 400