

# Atlas European Standard Transducers

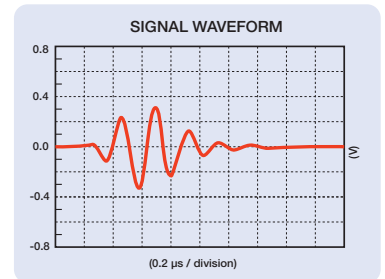
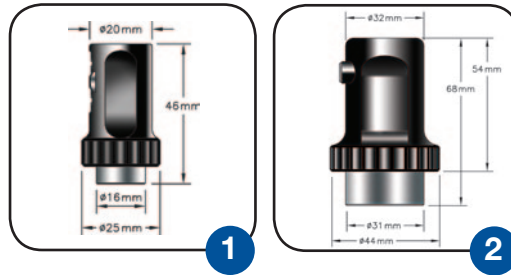


- **Dual Element**
- **Contact**
- **Integral Angle Beam**
- **Protected Face**

# Atlas European Standard Transducers

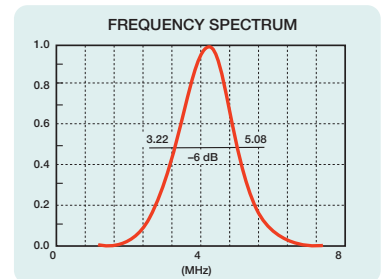
Our Atlas European Standard transducers are available in dual element, angle beam, contact, and protected face styles. They are designed to meet inspection criteria referenced throughout Europe and the rest of the world. Our Atlas transducers are available in metric unit element diameters and common frequencies, such as 1, 2, 4, 5, and 6 MHz. **Contact Olympus regarding Atlas transducer characterisation according to EN12668-2.**

## Dual Element Transducers



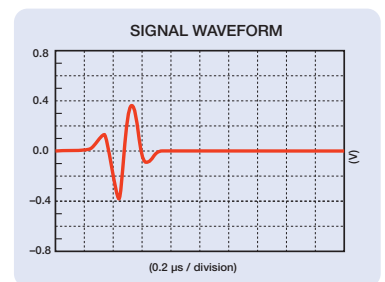
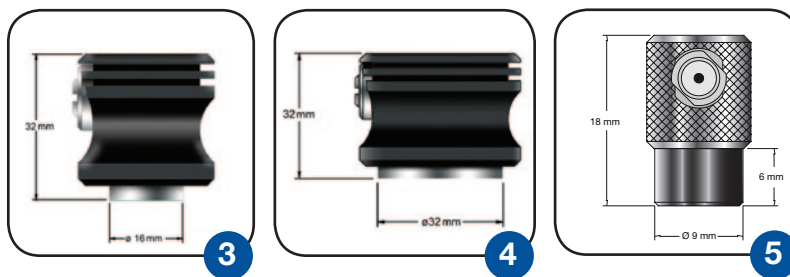
Frequency (MHz)	Nominal element size (mm)	Part number	Focus in steel (mm)	Typical bandwidth (%)	Connector	Connector location	Outline #
2.0	7 x 18	DL2R-7X18	15,0	50	LEMO® 00 (2)	Right Angle	2
	7 x 18	DL2R-7X18-0	30,0	50	LEMO 00 (2)	Right Angle	2
	11	DL2R-11	8,0	48	LEMO 00 (2)	Right Angle	2
4.0	3.5 x 10	DL4R-3.5X10	10,0	45	LEMO 00 (2)	Right Angle	1
	6 x 20	DL4R-6X20	12,0	48	LEMO 00 (2)	Right Angle	2
	6 x 20	DL4R-6X20-0	25,0	48	LEMO 00 (2)	Right Angle	2

DGS diagrams are included with all dual element transducers.



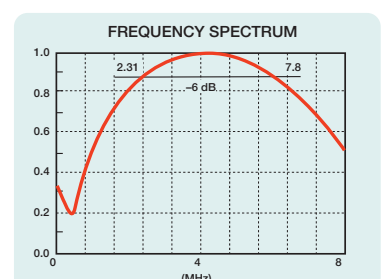
Signal waveform and frequency spectrum of DL4R-3.5X10

## Contact Transducers



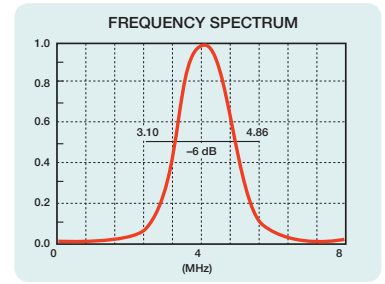
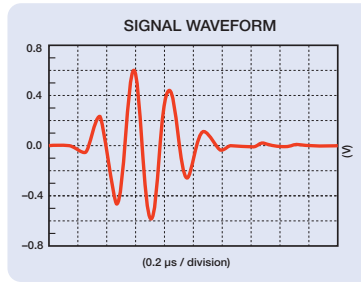
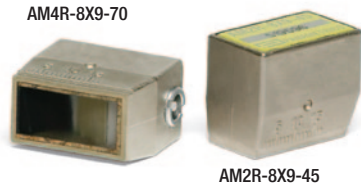
Frequency (MHz)	Nominal element size (mm)	Part number	Focus in steel (mm)	Typical bandwidth (%)	Connector	Connector location	Outline #
2.0	10	CN2R-10	7.2	85	LEMO 00	Right Angle	3
	24	CN2R-24	45.0	85	LEMO 00	Right Angle	4
4.0	10	CN4R-10	15.6	85	LEMO 00	Right Angle	3
	24	CN4R-24	91.0	85	LEMO 00	Right Angle	4
5.0	5	CN5R-5	5.0	60	Microdot®	Right Angle	5
10.0	5	CN10R-5	10.0	60	Microdot	Right Angle	5

DGS diagrams are currently not available for contact transducers.



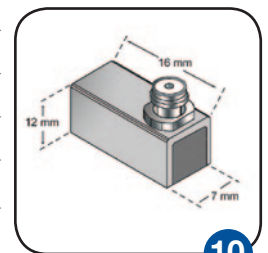
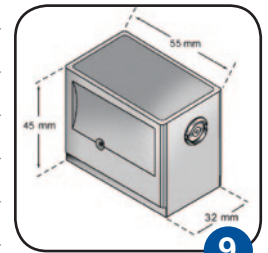
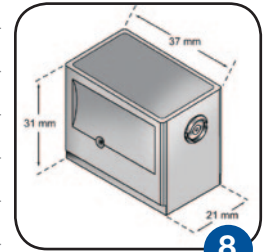
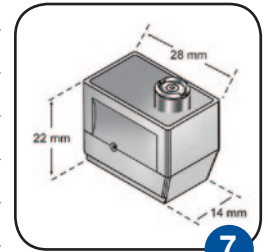
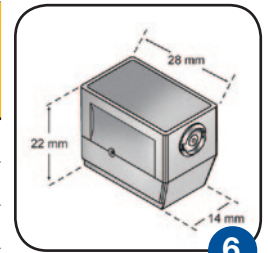
Signal waveform and frequency spectrum of CN4R-10

# Integral Angle Beam Transducers



Signal waveform and frequency spectrum of DL4R-3.5X10

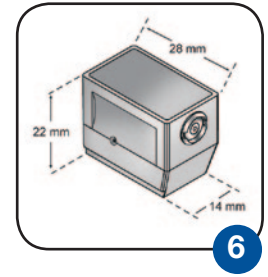
Frequency (MHz)	Nominal element size (mm)	Angle (°)	Near field in steel (mm)	Part number	Typical bandwidth (%)	Connector	Connector location	Outline #
1.0	20 x 22	45	45,0	AM1R-20X22-45	55	LEMO® 01	Right Angle	9
	20 x 22	60	45,0	AM1R-20X22-60	55	LEMO 01	Right Angle	9
	20 x 22	70	45,0	AM1R-20X22-70	55	LEMO 01	Right Angle	9
2.0	8 x 9	45	15,0	AM2R-8X9-45	40	LEMO 00	Right Angle	6
	8 x 9	45	15,0	AM2S-8X9-45	40	LEMO 00	Straight	7
	8 x 9	60	15,0	AM2R-8X9-60	40	LEMO 00	Right Angle	6
	8 x 9	60	15,0	AM2S-8X9-60	40	LEMO 00	Straight	7
	8 x 9	70	15,0	AM2R-8X9-70	40	LEMO 00	Right Angle	6
	8 x 9	70	15,0	AM2S-8X9-70	40	LEMO 00	Straight	7
	14 x 14	45	39,0	AM2R-14X14-45	45	LEMO 00	Right Angle	8
4.0	14 x 14	60	39,0	AM2R-14X14-60	45	LEMO 00	Right Angle	8
	14 x 14	70	39,0	AM2R-14X14-70	45	LEMO 00	Right Angle	5
	20 x 22	38	90,0	AM2R-20X22-38	40	LEMO 01	Right Angle	9
	20 x 22	45	90,0	AM2R-20X22-45	40	LEMO 01	Right Angle	9
	20 x 22	60	90,0	AM2R-20X22-60	40	LEMO 01	Right Angle	9
	20 x 22	70	90,0	AM2R-20X22-70	40	LEMO 01	Right Angle	9
	8 x 9	38	30,0	AM4R-8X9-38	40	LEMO 01	Right Angle	6
6.0	8 x 9	45	30,0	AM4R-8X9-45	40	LEMO 00	Right Angle	6
	8 x 9	45	30,0	AM4S-8X9-45	40	LEMO 00	Straight	7
	8 x 9	60	30,0	AM4R-8X9-60	40	LEMO 00	Right Angle	6
	8 x 9	60	30,0	AM4S-8X9-60	40	LEMO 00	Straight	7
	8 x 9	70	30,0	AM4R-8X9-70	40	LEMO 00	Right Angle	6
	8 x 9	70	30,0	AM4S-8X9-70	40	LEMO 00	Straight	7
	20 x 22	45	180,0	AM4R-20X22-45	40	LEMO 01	Right Angle	9
5.0	20 x 22	60	180,0	AM4R-20X22-60	40	LEMO 01	Right Angle	9
	20 x 22	70	180,0	AM4R-20X22-70	40	LEMO 01	Right Angle	9
	14 x 14	45	88,0	AM5R-14X14-45	40	LEMO 00	Right Angle	7
6.0	14 x 14	60	88,0	AM5R-14X14-60	40	LEMO 00	Right Angle	7
	14 x 14	70	88,0	AM5R-14X14-70	40	LEMO 00	Right Angle	7
	3 x 4	45	N/A	AM6S-3X4-45	38	Microdot®	Straight	10
6.0	3 x 4	60	N/A	AM6S-3X4-60	38	Microdot	Straight	10
	3 x 4	70	N/A	AM6S-3X4-70	38	Microdot	Straight	10



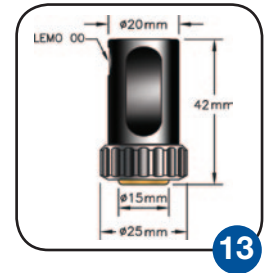
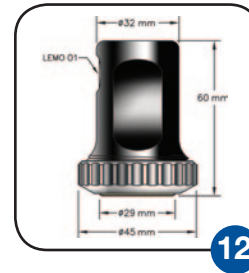
DGS diagrams are included with all integral angle beam transducers except AM6S-3x4-45, AM6S-3x4-60, and AM6S-3x4-45.

# Integral Angle Beam with Composite Elements

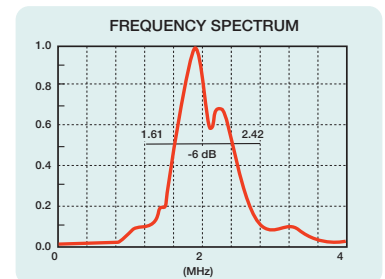
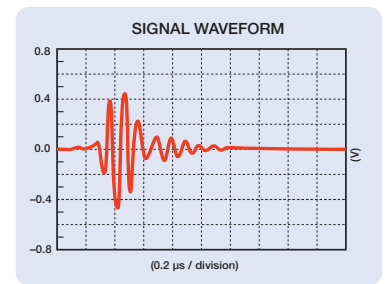
Frequency (MHz)	Nominal element size (mm)	Angle (°)	Part number	Near field (mm)	Typical bandwidth (%)	Connector	Connector location	Outline #
2.0	8 X 9	45°	AM2R-8X9-C45	15,0	65	LEMO 00	Right Angle	6
	8 X 9	60°	AM2R-8X9-C60	15,0	65	LEMO 00	Right Angle	6
	8 X 9	70°	AM2R-8X9-C70	15,0	65	LEMO 00	Right Angle	6
4.0	8 X 9	45°	AM4R-8X9-C45	30,0	80	LEMO 00	Right Angle	6
	8 X 9	60°	AM4R-8X9-C60	30,0	80	LEMO 00	Right Angle	6
	8 X 9	70°	AM4R-8X9-C70	30,0	80	LEMO 00	Right Angle	6



# Protected Face Transducers



Frequency (MHz)	Nominal element size (mm)	Part number	Near field (mm)	Typical bandwidth (%)	Connector	Connector location	Outline #
1.0	24	PF1R-24	23.0	45	LEMO 01	Right Angle	12
	24	PF1S-24	23.0	45	LEMO 01	Straight	11
2.0	10	PF2R-10	7.2	45	LEMO 00	Right Angle	13
	24	PF2R-24	45.0	45	LEMO 01	Right Angle	12
	24	PF2S-24	45.0	45	LEMO 01	Straight	11
4.0	10	PF4R-10	15.6	35	LEMO 00	Right Angle	13
	24	PF4R-24	91.0	30	LEMO 01	Right Angle	12
	24	PF4S-24	91.0	30	LEMO 01	Straight	12



DGS diagrams are included with all protected face transducers.

Signal waveform and frequency spectrum of PF2R-24

# Protective Membrane Accessories



PM-24-12

Description	Fits with nominal element size (mm)	Part number
Set of 12 membranes	10	PM-10-12
Set of 12 membranes	24	PM-24-12
Retaining ring	10	MRN-10
Retaining ring	24	MRN-24



Also available is the AVG/DGS Diagrams binder, which contains a DGS diagram and specification sheet for most angle beam, all dual element; and all protective face transducers; see charts for availability. These diagrams are printed on splash and tearproof paper and housed in a six-ring binder. (PN: AVG/DGS-DIAGRAMS)

OLYMPUS NDT INC. is ISO 9001 certified.



www.olympus-ims.com  
industrial@olympus.co.uk

**OLYMPUS CORPORATION**  
Shinjuku Monolith, 3-1Nishi-Shinjuku2-chome, Shinjuku-ku, Tokyo 163-0914, Japan, Tel: 81(0)3-6901-4039  
**OLYMPUS NDT INC.**  
48 Woerd Avenue, Waltham, MA 02453, USA, Tel.: (1) 781-419-3900  
**OLYMPUS INDUSTRIAL SYSTEMS EUROPA**  
Stock Road, Southend-on-Sea, Essex, SS2 5QH, UK, Tel.: (44) (0) 1702 616333  
**OLYMPUS AUSTRALIA PTY. LTD.**  
31 Gilby Road, Mount Waverly, Victoria, 3149, Tel.: (61) 130-013-2992  
**OLYMPUS SINGAPORE PTE LTD.**  
Valley Point Office Tower, 248373, Tel: (65) 68-34-00-10

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