Contact Transducers

A contact transducer is a single element longitudinal wave transducer intended for use in direct contact with a test piece.

Advantages

- Proprietary WC-5 wear plate increases durability, fracture resistance, and wear resistance
- All styles are designed for use in rugged industrial environments
- Close acoustic impedance matching to most metals
- Can be used to test a wide variety of materials

Applications

- Straight beam flaw detection and thickness gaging
- Detection and sizing of delaminations
- Material characterization and sound velocity measurements
- Inspection of plates, billets, bars, forgings, castings, extrusions, and a wide variety of other metallic and non-metallic components
- For continuous use on materials up to 122° F (50° C)

Fingertip Contact

- Units larger than 0.25 in. (6 mm) are knurled for easier grip
- 303 stainless steel case
- Low profile for difficult-to-access surfaces
- Removable plastic sleeve for better grip available upon request at no additional charge, part number CAP4 for 0.25 in. (6 mm) and CAP8 for 0.125 in. (3 mm)
- Standard configuration is Right Angle and fits Microdot® connector

Transducer Dimensions (in inches)		
Nominal Element Size	(A)	(B)
1.00	1.25	0.63
0.75	1.00	0.63
0.50	0.70	0.63
0.375	0.53	0.50
0.25	0.35	0.42
0.125	0.25	0.38

Freq	Nominal Element Size		Transducer Part Numbers		
MHz	in.	mm	ACCUSCAN-S	CENTRASCAN	VIDEOSCAN
0.5	1.00	25	A101S-RM	—	V101-RM
1.0	1.00	25	A102S-RM	—	V102-RM
	0.75	19	A114S-RM	—	V114-RM
	0.50	13	A103S-RM	—	V103-RM
2.25	1.00	25	A104S-RM	—	V104-RM
	0.75	19	A105S-RM	—	V105-RM
	0.50	13	A106S-RM	C106-RM	V106-RM
	0.375	10	A125S-RM	C125-RM	V125-RM
	0.25	6	A133S-RM	C133-RM	V133-RM
3.5	1.00	25	A180S-RM	—	—
	0.75	19	A181S-RM	—	V181-RM
	0.5	13	A182S-RM	—	V182-RM
	0.375	10	A183S-RM	—	V183-RM
	0.25	6	A184S-RM	—	—
5.0	1.00	25	A107S-RM	—	V107-RM
	0.75	19	A108S-RM	—	V108-RM
	0.50	13	A109S-RM	C109-RM	V109-RM
	0.375	10	A126S-RM	C126-RM	V126-RM
	0.25	6	A110S-RM	C110-RM	V110-RM
	0.125	3	—	—	V1091
7.5	0.50	13	A120S-RM	—	—
	0.375	10	A122S-RM	—	V122-RM
	0.25	6	A121S-RM	—	V121-RM
10	0.50	13	A111S-RM	—	V111-RM
	0.375	10	A127S-RM	—	V127-RM
	0.25	6	A112S-RM	—	V112-RM
	0.125	3	—	—	V129-RM
15	0.25	6	A113S-RM	—	V113-RM
20	0.125	3	—	—	V116-RM

Standard Contact

- Comfort Fit sleeves designed to be easily held and to provide a steady grip while wearing gloves
- 303 stainless steel case
- Large element diameters for increased sound energy and greater coverage
- Standard connector style is Right Angle BNC (RB), may be available in a Straight BNC (SB)

Frequency	Nominal Element Size		Transducer Part Numbers		
MHz	inches	mm	ACCUSCAN-S	VIDEOSCAN	
0.1	1.50	38	—	V1011	
0.25	1.50	38	—	V1012	
0.5	1.5	38	A189S-RB	V189-RB	
	1.125	29	A191S-RB	V191-RB	
	1.00	25	A101S-RB	V101-RB	
1.0	1.50	38	A192S-RB	V192-RB	
	1.125	29	A194S-RB	V194-RB	
	1.00	25	A102S-RB	V102-RB	
	0.75	19	A114S-RB	V114-RB	CENTRASCAN
	0.50	13	A103S-RB	V103-RB	C103-SB
2.25	1.5	38	A195S-RB	V195-RB	
	1.125	29	A197S-RB	V197-RB	
	1.00	25	A104S-RB	V104-RB	
	0.75	19	A105S-RB	V105-RB	
	0.50	13	A106S-RB	V106-RB	
	0.25 x 1	6 x 25	A188S-RB*	—	
3.5	1.00	25	A180S-RB	V180-RB	
	0.75	19	A181S-RB	V181-RB	
	0.50	13	A182S-RB	V182-RB	
5.0	1.00	25	A107S-RB	V107-RB	
	0.75	19	A108S-RB	V108-RB	
	0.50	13	A109S-RB	V109-RB	
7.5	0.50	13	A120S-RB	V120-RB	
10	0.50	13	A111S-RB	V111-RB	

*Per ASTM Standard A-418

V104-RB

V105-SB

V103-RB

Transducer Dimensions (in inches)

Nominal Element Size	(A)	(B)	(C)
1.50	1.75	2.23	1.25
1.50*	1.75	2.50	2.50
1.125	1.38	1.79	1.25
1.00	1.25	1.60	1.25
0.25 x 1.00	1.25	1.60	1.25
0.75	1.00	1.37	1.25
0.50	0.63	1.16	1.25

*V1011 and V1012 housed in different case.

M1057

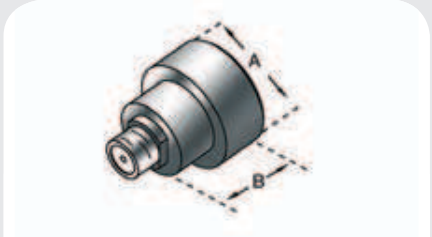
M1057

Magnetic Hold Down Contact

- Magnetic ring around transducer case for stationary positioning on ferrous materials
- Broadband performance similar to Videoscan series

Frequency	Nominal Element Size		Part Number
MHz	inches	mm	
5.0	0.5	13	M1042
	0.25	6	M1057
10	0.5	13	M1056
	0.25	6	M1054
15	0.25	6	M1055

Note: All above magnetic hold down transducers have straight Microdot® connectors.



Transducer Dimensions (in inches)

Nominal Element Size	(A)	(B)
0.50	0.81	0.63
0.25	0.50	0.42