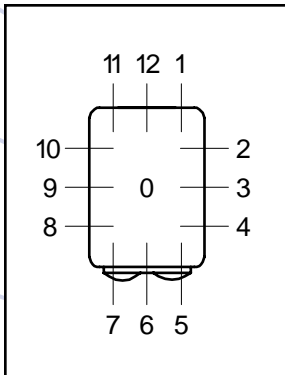




APPLICATION NOTE AN-1

Transducer Signal Port Location Key

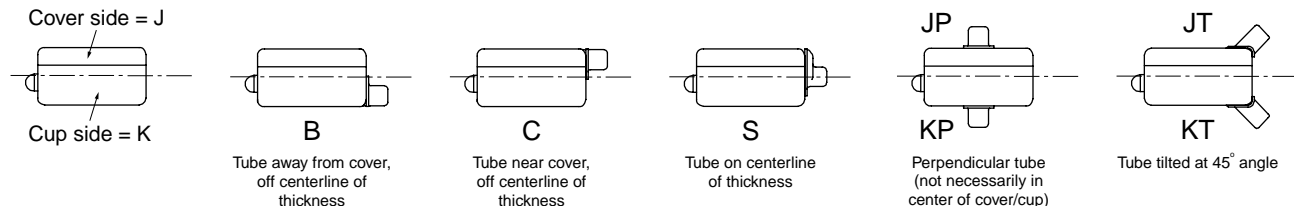


The Signal Port Location Key compares the transducer case to a clock face and identifies the signal port locations with the hour hand positions of that clock. A tubed acoustic port is implied unless otherwise specified.

The transducer case consists of two parts, a bottom cup with terminals mounted to it and a top cover. If the transducer is viewed looking down at the cover with the middle of the terminal board at 6 o'clock, the signal port locations are as shown at left. The "0" position is at the center of the clock dial.

When combined with the below listed "Port Detail Codes", this forms the alpha-numeric Signal Port Location nomenclature, e.g., 12B port, 3S port, 0KP port, etc., used throughout the Knowles Electronics transducer data sheets.

The following letter codes are defined for additional information on port location:



Port Detail Codes

a = Salt shaker port
B = Tube away from cover
C = Tube near cover
L = Large diameter tube
m = Microtube

n = No tube
P = Tube perpendicular to large surface of cup/cover
S = Tube on centerline
T = Tube tilted 45° from cup/cover
y = Port with special location

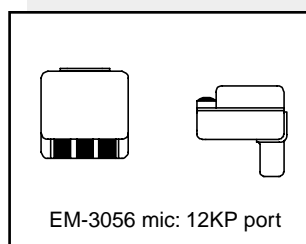
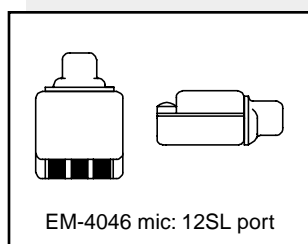
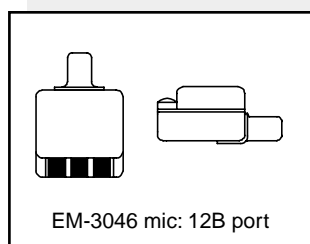
Directional Microphones: 1st code is for front port, 2nd code is for rear port.

Exceptions: Products which do not follow the standard Transducer Signal Port Location nomenclature are addressed on an individual basis.



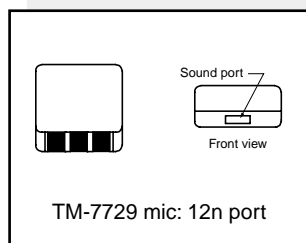
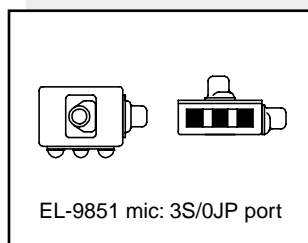
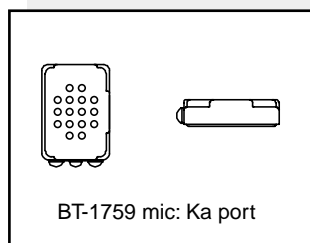
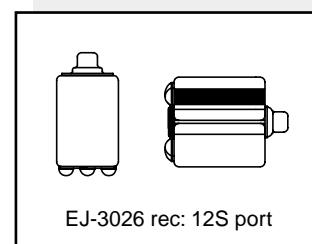
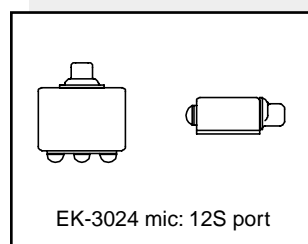
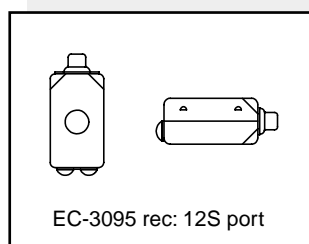
application note

Signal Port Location Examples



Transducers in the same family can have a variety of signal port locations, sizes, and styles.

Transducers in different families can have the same signal port location and style.



Special port locations, styles, and sizes are also available for many transducer series.

Drawings on this page are not to scale

Knowles Electronics, Inc.
1151 Maplewood Drive
Itasca, Illinois 60143
Phone: (630) 250-5100
Fax: (630) 250-0575
www.knowles.com

Knowles Europe
York Road, Burgess Hill
West Sussex, RH15 9TT, England
Phone: (44) 1444 235432
Fax: (44) 1444 248724

Knowles Electronics Taiwan, Ltd.
53 Pao Hsing Road
Hsin Tien City, Taipei, Taiwan
Republic of China
Phone: (886) 2 2911 4931
Fax: (886) 2 2918 6868

Knowles Electronics Japan KK
Kyodo Bloom Building
19-1 Miyasaka 2-Chome
Setagaya-Ku, Tokyo 156-0051, Japan
Phone: (81) 3 3439 1151
Fax: (81) 3 3439 8822

Micromax Pty. Ltd.
P.O. Box 1238
Wollongong N.S.W.
2500, Australia
Phone: (61) 2 4226 6777
Fax: (61) 2 4226 6602

NOTE: Specifications are subject to change without notice. The information on this Data Sheet reflects typical applications. Specific test specifications defining each model are available by requesting Outline Drawing Sheets 1.1 and Performance Specifications Sheets 2.1 of that model number. Knowles' responsibility is limited to compliance with the Outline Drawing and the Performance Specification application to the subject model at time of manufacture.

Knowles Electronics, Inc.