

MICROSONIC

Since the very beginning, humans and animals have used sound as an information medium and as a means of measurement. Bats can locate their position by means of ultrasound. Dolphins can detect shoals of fish and other objects underwater using ultrasonic frequencies of up to 120 kHz, and are even able to determine the heartbeat rate of other animals. Probably the oldest type of sonic measurement used by human beings is to count the seconds between seeing a bolt of lightning and hearing the thunder in order to determine just how near a storm really is.

The idea of exploiting such measuring techniques-albeit very much refined-for industrial purposes led to the development of ultrasonic sensors. These emit high-frequency sound pulses, inaudible to the human ear, and measure the time taken by the signals to return after being reflected from an object.

The robust sensors prove their capabilities in the most diverse applications, particularly through their ability to operate without any contact with the objects being measured or detected. This is even possible under extreme ambient conditions. Also impressive is their ability to detect accurately a vast range of different materials and colours.

It is exactly this huge potential variety of practical applications and the need to overcome traditional performance boundaries with product innovation that have driven microsonic for over 25 years. Since 1990, the internationally active company, headquartered in Dortmund, has concentrated on the development and production of innovative ultrasonic sensors for industrial automation technology.

bks-3/CIU

bks-6/12/CIU

bks+3/FIU

bks+6/FIU

crm+25/D/TC/E

crm+25/DD/TC/E

crm+25/IU/TC/E

crm+35/D/TC/E

crm+35/DD/TC/E

crm+35/IU/TC/E

crm+130/D/TC/E

crm+130/DD/TC/E

crm+130/IU/TC/E

crm+130/DIU/TC/E

crm+340/D/TC/E

crm+340/DD/TC/E

crm+340/IU/TC/E

crm+340/DIU/TC/E

crm+600/D/TC/E

crm+600/DD/TC/E

crm+600/IU/TC/E

dbk+4/3CDD/M18 E+S

dbk+4/WK/3CDD/M18 E+S

dbk+4/M18/3CDD/M18 E+S

dbk+4/M12/3CDD/M18 E+S

dbk+4/3BEE/M18 E+S

dbk+4/WK/3BEE/M18 E+S

dbk+4/M18/3BEE/M18 E+S

dbk+4/M12/3BEE/M18 E+S

dbk+4/Sender/M18/K1

dbk+4/Sender/M12/K1

dbk+4/Empf/3CDD/M18

dbk+4/Empf/WK/3CDD/M18

dbk+4/Empf/M18/3CDD/M18

dbk+4/Empf/M12/3CDD/M18

dbk+4/Empf/3BEE/M18

dbk+4/Empf/WK/3BEE/M18

dbk+4/Empf/M18/3BEE/M18

dbk+4/Empf/M12/3BEE/M18

dbk+5/3CDD/M18 E+S

dbk+5/3BEE/M18 E+S

dbk+5/Sender/M18/K1

dbk+5/Empf/3CDD/M18

dbk+5/Empf/3BEE/M18

esf-1/CDF

esf-1/15/CDF

esf-1/CF

esp-4/3CDD/M18 E+S

esp-4/M12/3CDD/M18 E+S

esp-4/Empf/3CDD/M18

esp-4/Empf/M12/3CDD/M18

ews-15/CD (single unit)

ews-15/M18/CD Set

ews-25/M18/CD Set

ews-100/M18/CD Set

hps+25/DD/TC/E/G1

hps+25/DIU/TC/E/G1

hps+35/DD/TC/E/G1

hps+35/DIU/TC/E/G1

hps+80/I/GF/K5

hps+80/I/GF/OS/ K5

hps+80/DIU/TC/E/G1

hps+130/DD/TC/E/G1

hps+130/DIU/TC/E/G1

hps+340/DD/TC/E/G2

hps+340/DIU/TC/E/G2

hps+340/DD/TC/G2

hps+340/DIU/TC/G2

lcs-25/DD/QP

lcs-25/DDD/QP

lcs-25/IU/QP

lcs-35/DD/QP

lcs-35/DDD/QP

lcs-35/IU/QP

lcs-130/DD/QP

lcs-130/DDD/QP

lcs-130/IU/QP

lcs+340/F

lcs+340/DD

lcs+340/IU

lcs+600/F

lcs+600/DD

lcs+600/IU

lpc-25/CDD/M18

lpc-25/CEE/M18

lpc-25/CI/M18

lpc-25/CU/M18

lpc-25/CDU/M18

lpc-25/CDI/M18

mic-25/D/M

mic-25/IU/M

mic-35/D/M
mic-35/DD/M
mic-35/IU/M
mic-130/D/M
mic-130/DD/M
mic-130/IU/M
mic-340/D/M
mic-340/DD/M
mic-340/IU/M
mic-600/D/M
mic-600/IU/M
mic+25/D/TC
mic+25/D/TC/E
mic+25/DD/TC
mic+25/DD/TC/E
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mic+600/D/TC/E
mic+600/DD/TC

mic+600/DD/TC/E

mic+600/IU/TC

mic+600/IU/TC/E

mic+600/DIU/TC

mic+600/DIU/TC/E

mic+600/E/TC

mic+600/EE/TC

nano-15/CD

nano-15/CE

nano-15/CI

nano-15/CU

nano-24/CD

nano-24/CE

nano-24/CI

nano-24/CU

pico+15/F

pico+15/WK/F

pico+25/F

pico+25/WK/F

pico+25/I

pico+25/WK/I

pico+25/U

pico+25/WK/U

pico+35/F

pico+35/WK/F

pico+35/I

pico+35/WK/I

pico+35/U

pico+35/WK/U

pico+100/F

pico+100/WK/F

pico+100/I

pico+100/WK/I

pico+100/U

pico+100/WK/U

pico+15/TF/F

pico+15/TF/I

pico+15/TF/U

pico+25/TF/F

pico+25/TF/I

pico+25/TF/U

pico+35/TF/F

pico+35/TF/I

pico+35/TF/U

pico+100/TF/F

pico+100/TF/I

pico+100/TF/U

sks-15/D

sks-15/CD

sks-15/E

sks-15/CE

sks-15/CF

sks-15/CI

sks-15/CU

ucs-15/CDD/QM

ucs-15/CEE/QM

ucs-24/CDD/QM

ucs-24/CEE/QM

wms-25/RT/HV/M18

wms-35/RT

wms-130/RT

wms-340/RT

wms-600/RT

zws-7/CD/QS

zws-15/CD/QS

zws-15/CD/ 5ms.a

zws-15/CE/QS

zws-15/CI/QS

zws-15/CU/QS

zws-24/CD/QS

zws-24/CE/QS

zws-24/CI/QS

zws-24/CU/QS

zws-25/CD/QS

zws-25/CE/QS

zws-70/CD/QS

zws-70/CE/QS

zws-70/CI/QS

zws-70/CU/QS

KST4G-2/M12

KST4G-2/M12/S

KST4A-2/M12
KST4A-2/M12/S
KST4G-5/M12
KST4G-5/M12/S
KST4A-5/M12
KST4A-5/M12/S
KST4G-10/M12
KST4A-10/M12
KST5G-2/M12
KST5A-2/M12
KST5G-5/M12
KST5A-5/M12
KST5G-10/M12
KST3G-2/M8
KST3A-2/M8
KST3G-5/M8
KST3A-5/M8
KST4G-2/M8
KST4A-2/M8
KST4G-5/M8
KST4A-5/M8
STG4/M12
STA4/M12
STG5/M12
STA5/M12
LCA-2
LCA-2 Koffer

SyncBox 1

SyncBox 2

dbk-Testbogen

SoundPipe zws1

UF-90/M18

UF-90/M30

MW-ZWS1

MW-ZWS2

MW-ZWS3

MW-LCS1

BF-18

BF-30