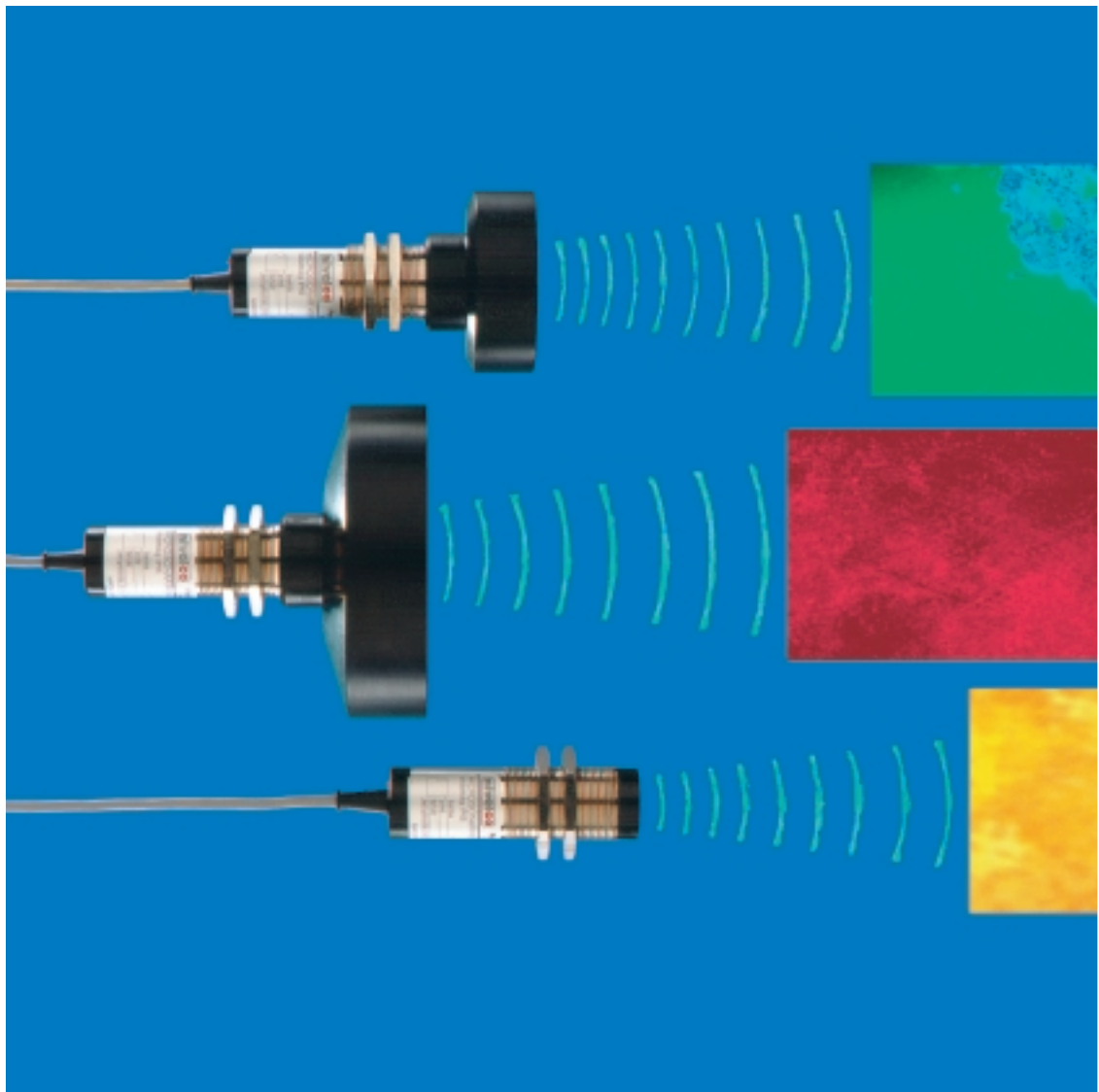




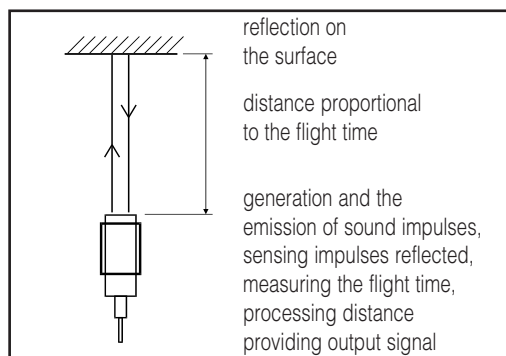
MICROSONAR

ULTRASONIC DISTANCE SENSORS



OUR PROFESSION IS YOUR LEVEL

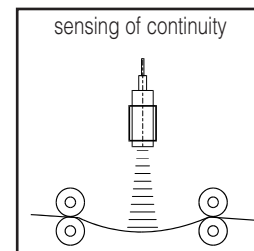
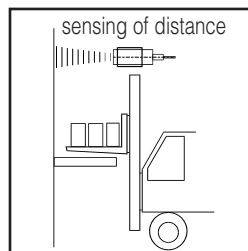
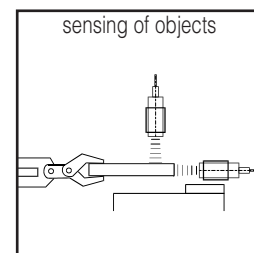
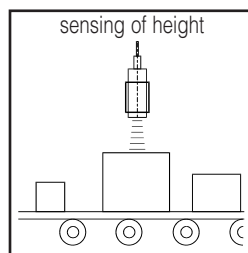
ULTRASONIC ECHO TECHNOLOGY



Output signals

- switch on or off (at a required distance to be pre-set by a multi-turn potentiometer)
- analogue (0...5 V or 0...5 mA) values proportional to the distance measured
- “pulse” output for further processing

USED FOR NON CONTACT SENSING

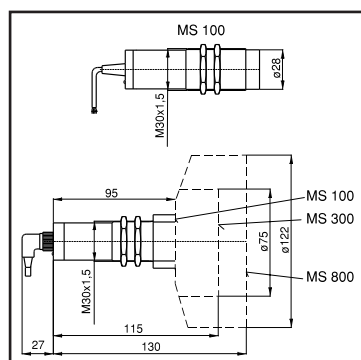


SPECIFICATIONS

TYPE		101-104	105-106	301-304	305-306	801-804	805-806
Range	X _{min}	0.2 m		0.3 m		0.5 m	
	X _{max}	1 m		3 m		8 m	
Ultrasonic frequency		160 kHz		60 kHz		40 kHz	
Sonic cone		5°		5°		5°	
Switching time		< 32 ms	–	< 95 ms	–	< 250 ms	–
Settling time		–	125 ms	–	375 ms	–	1000 ms
Reproducibility		±0.5% ±2 mm		±0.5% ±6 mm		±0.5% ±5 mm	
Linearity		–	±8 mm	–	±25 mm	–	±50 mm
Temp. coefficient		0.03% / °C					
Output versions		PNP or NPN	105: 0-5V 106: 0-5 mA	PNP or NPN	305: 0-5V 306: 0-5 mA	PNP or NPN	805: 0-5V 806: 0-5 mA
Output data	– Switching voltage	max. 30 V DC	–	max. 30 V DC	–	max. 30 V DC	–
	– Switching current	max. 120 mA	–	max. 120 mA	–	max. 120 mA	–
	– Permissible load	–	105: > 2 kOhm 106: < 300 Ohm	–	305: > 2 kOhm 306: < 300 Ohm	–	805: > 2 kOhm 806: < 300 Ohm
	Hysteresis	1%	–	1%	–	1%	–
Short circuit & reverse polarity protection		Yes					
Input power		10.8 V ... 26.4 V DC					
Current consumption	At 12 V	< 30 mA	< 50 mA	< 28 mA	< 38 mA	< 26 mA	< 36 mA
	At 24 V	< 32 mA	< 65 mA	< 32 mA	< 58 mA	< 32 mA	< 55 mA
Enclosure		IP 65					
Temperature range*		–10 ... +60 °C					
Housing		Brass, nickelplated PP housing					
Weight		0.2 kg		0.45 kg		0.85 kg	

* Compensation made for changes in sound velocity caused by temperature variations.

DIMENSIONS



ORDER CODE

MICROSONAR MS 0 -

RANGE	CODE
1 m	1
3 m	3
8 m	8

t = distance measured
k = distance pre-set

* Non Conform to CE

CONNECTION	CODE
Connector	C*
Built-in cable	K

OUTPUT VERSIONS	CODE
NPN (switch on if t<k)	1
PNP (switch on if t<k)	2
NPN (switch on if t>k)	3
PNP (switch on if t>k)	4
0...5V (analogue out.)	5
0...5mA (analogue out.)	6

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