



Features

- 1. Measurement can be taken without contacting the object to be measured.
- 2. The effective measuring range is 0-1 m, so it can be used without worrying about the dead zone.
- 3. The output is 4 20 mA of the international standard signal, so it can be directly connected to typical industrial instrument.
- 4. The sensor head portion does not contain an electronic circuit, preventing it from getting affected by the environment.
- 5. The temperature sensor built in the sensor head portion automatically adjusts the temperature.
- 6. Zero and span adjustments can be correctly and easily set using the digital switches and volumes.

Converter MUM3100 Series Model/Code Table

SensorMUS30 Series Model/Code Table

Example) MUM31 1 0

Example) MUS30S G R 10

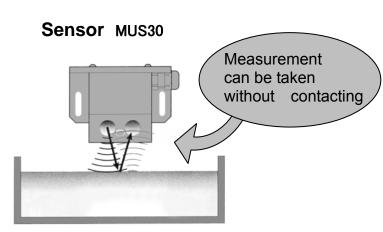
Specification	Co	de	Remarks		
MUM31		0			
Power voltage	0		DC12~28V, 4—20mA		
and *	1		DC12~28V, 1-5V		
Output signal	7		AC100V, 4-20mA		
	8		AC200V, 4-20mA		

Items with * mark are semi-standard goods and may take a while for delivery.

Specification Code					Remarks		
MUS30S							
	Pullout	G			Ground		
e	opening	С			Metal connector		
-	type *	X			Special		
q	[□] Pullout opening R			Right (viewed from the corner side)			
Ф	installtion orientation L		L		Left (viewed from the comer side)		
O	* X		Х		Location other than above		
	Length			Blank	6m		
				1~20	The length is indicated in meters		

Measurement principle

The ultrasound wave is emitted from the top, and the time it comes back from the reflecting surface is measured.



Specifications

Sensor MUS30

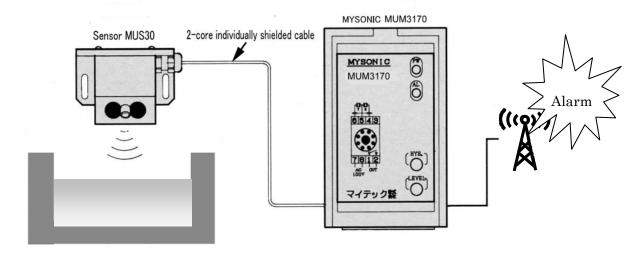
Туре	MUS30S
Oscillator	Piezo element
Temperature sensor	Thermistor
Case material	Aluminum
Operating temperature	-20~+60°C
Installation	M4 screw fixing
Protective structure	IP33
Weight	Approx. 200 g

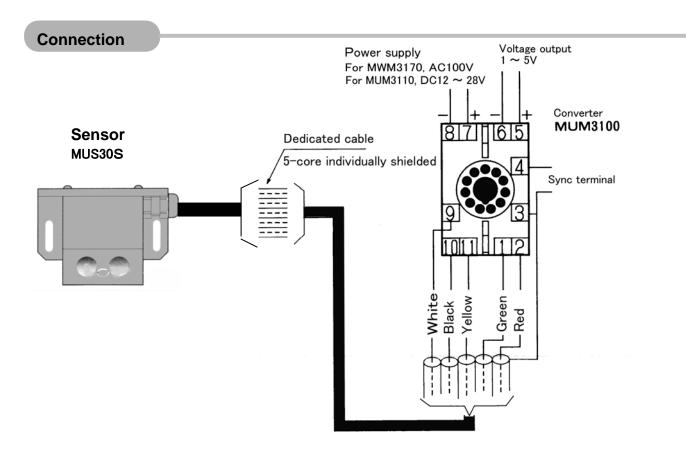
Specifications

Converter

Туре	уре мим3100		MUM3170	MUM3180			
Measurement range	0~1m						
Output	4~20mA(600Ω)	1~5 V	4∼20mA	1~5 V			
Power supply	DC12~2	28 V	AC100 V				
Current consumption	6mA+Output current	6 m A	Approx.1W				
Operating temperature	-20 ~ +50 °C						
Protective structure	IP30						
Weight	Арргох. 300 g						

Combination



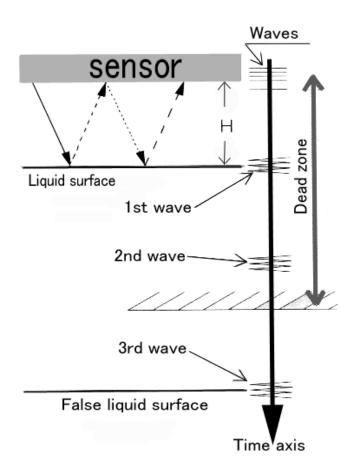


Problems with conventional products

Malfunction which conventionally could not be prevented with a common ultrasonic level meter.

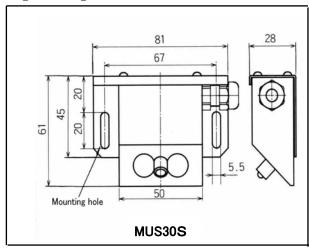
Not being affected by multiple echoes is a feature of this sensor, **MUS30.**

Due to this dead zone, the 1st wave cannot be detected, and the 3rd wave is detected, so a value 3 times larger than the actual distance is output.

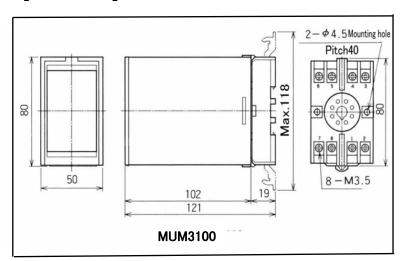


Dimensions

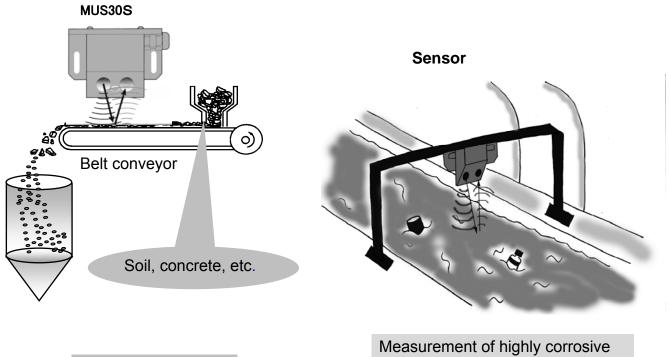
[Sensor]



[Converter]



[Example] Used for these applications



Conveyor scale

Measurement of highly corrosive substances such as sewage