



Ultrasonic level switch

MYSONIC
MUT3000

Features

1. Mysonic MUT3000 can issue a level alarm without contacting the object to be measured.
2. The alarm setting range is 0 – 200 mm, so it can be used without worrying about the dead zone.
3. The small and compact body makes it desirable to be embedded in devices.
4. The sensor does not contain any electronic component, so it can be safely used in an environment with a lot of vibrations or noises.
5. Due to the built-in hysteresis mechanism, the pump can be easily controlled without any external component.

Converter **MUT3000** Series Model/Code Table

Example) MUT300 | 1 | -2

Specification Code		Remarks
MUT300		
Alarm point	1	Alarm 1 point (1a)
Power voltage	Blank	AC100V
	*	-2 AC200V
	*	-5 DC24V

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

Sensor **MUS30** Series Model/Code Table

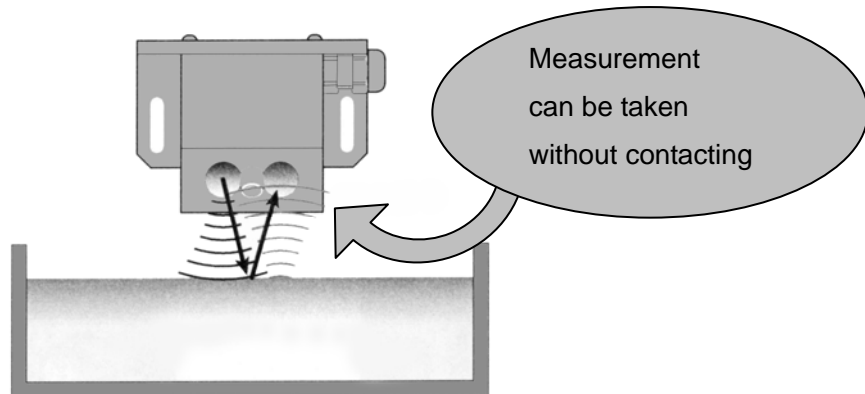
Example) MUS30S | G | R | 10

Specification Code		Remarks
MUS30S		
Pullout opening type *	G	Ground
	C	Metal connector
	X	Special
Pullout opening installation orientation	R	Right (viewed from the corner side)
	L	Left (viewed from the corner side)
	X	Location other than above
Length	Blank	6m
	1~30	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.

sensor MUS30



Specifications

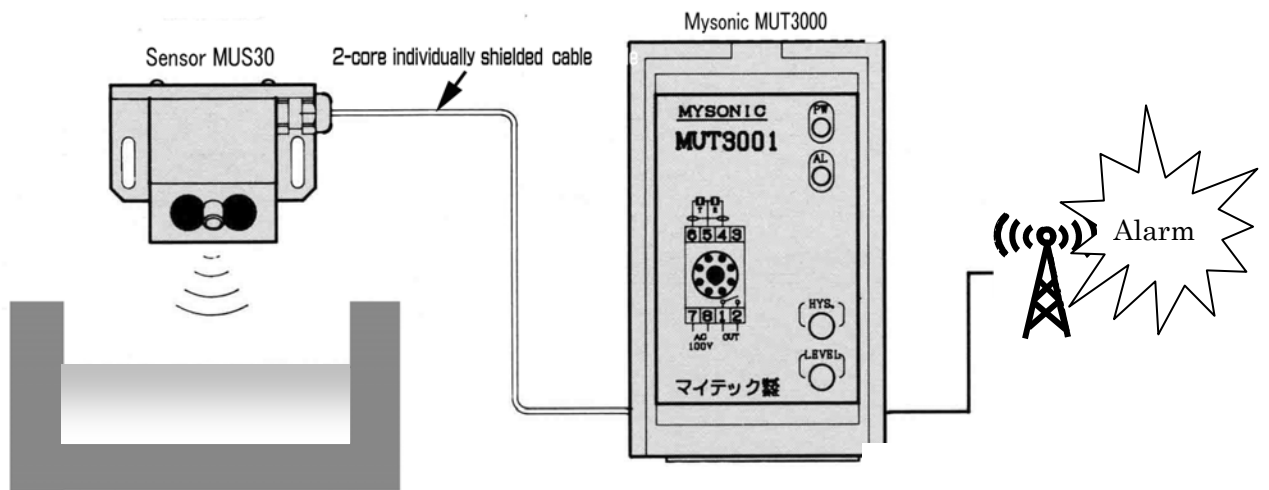
sensor MUS30

Type	M U S 3 0
Case material	Aluminum
Case paint color	Black/Hard alumite treatment
Case specifications	Drip-proof/dust-proof structure, IP54 compliant
Installation	Screw (mounting bracket included)
Operating temperature	-10 ~ +80°C
Operating pressure	Atmospheric pressure
Cable	Dedicated cable (2-core individually shielded) included
Transmission signal	Pulse signal
Weight	Approx. 200 g

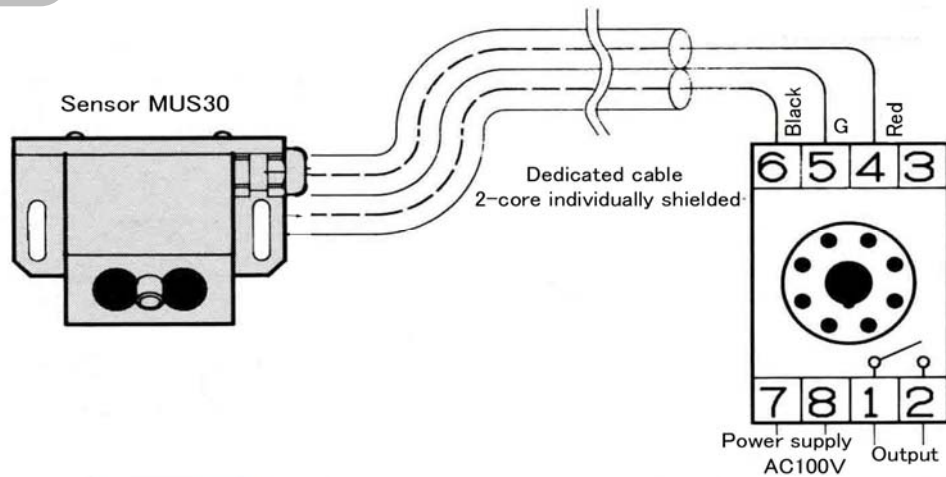
Alarm setting device MUT3000

Type	M U T 3000
Measurement range	0 ~ 200mm
Setting accuracy	±1mm
Alarm setting range	0 (Sensor tip) ~ 200mm (setting with the multi-turn volume)
Hysteresis	2 ~ 18mm (setting with the single-turn volume)
Output	Contact point (Mode switching solder bridge)
Contact capacity	AC250V 5A (resistance load)
Connection	Between sensor and transducer, using the dedicated cable
Power supply	AC100V, AC200V, ±10%, Approx 1.5VA, DC24V
Operating temperature	-20°C ~ +60°C
Weight	Approx. 300 g

Combination



Connection

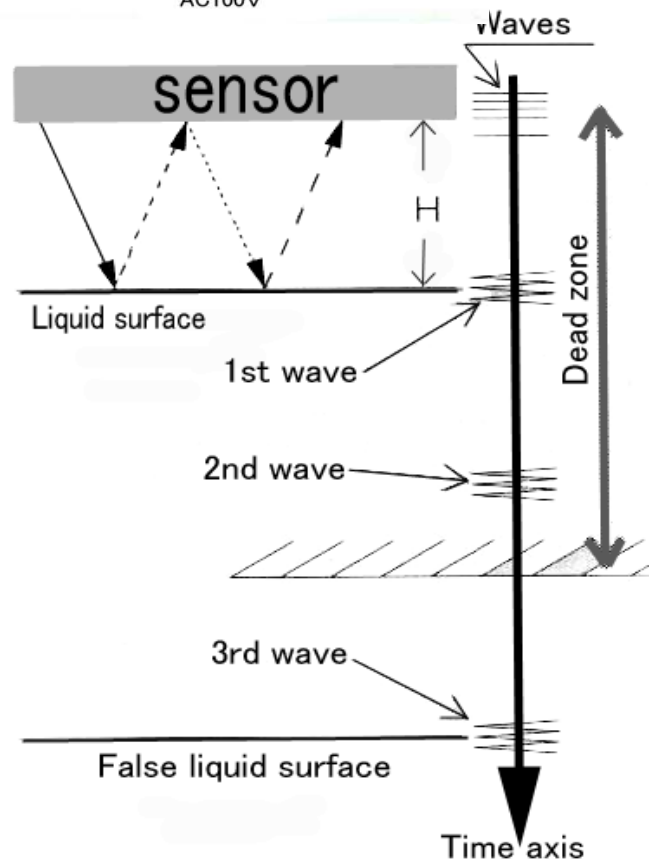


Problems with conventional products

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**.

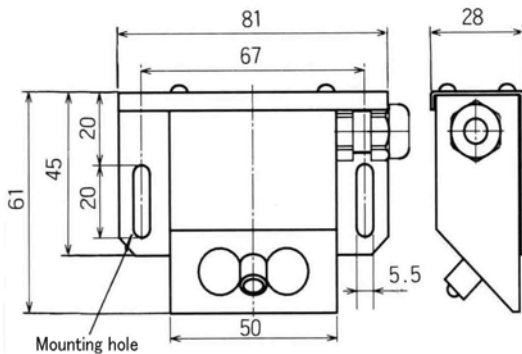
Due to this dead zone, the 1st wave cannot be detected, and the 3rd wave is detected, so a value 3 times larger than the actual distance is output.



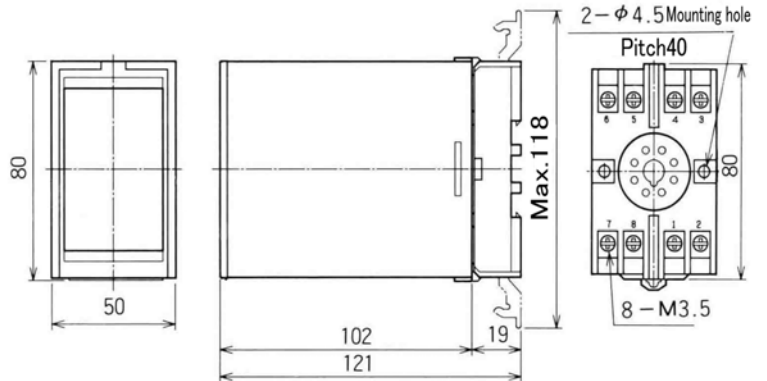
Dimensions

[Alarm setting device]

[Sensor]

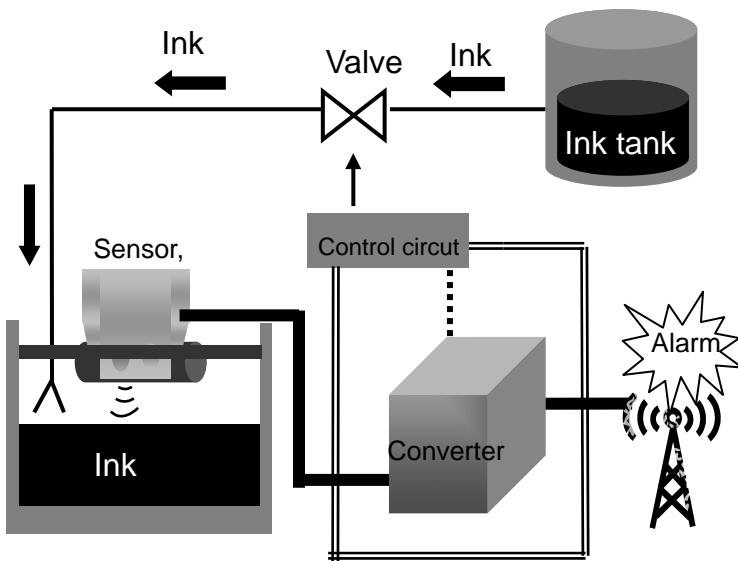


MUS30GR

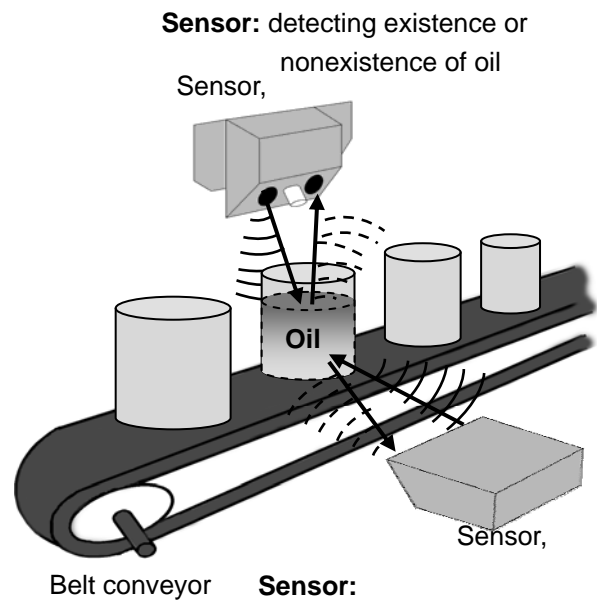


MUT3000

[Example] Other than common level measurements, used for these applications



Measuring ink level



Sensor: detecting existence or nonexistence of oil

Sensor: detecting existence or nonexistence of can

Detecting existence or nonexistence of oil in the can