ROCKHILL

ROHEVEL-UST1201

Ultrasonic level sensor for liquid

Application

The ultrasonic level sensor is used for level detection in silos, tanks and bunkers. continuous measurement. It is particularly suitable for level measurement in vessels with small process fitting and under simple process conditions. The slim rod antenna enables the installation in small vessel openings.

Features and benefit

- Protection IP68
- With compensation of temperature, foam, signal
- With overflow warning function
- Reject false and interfering echo automatically
- Gain adjustment
- Excellent stability and long life

Function

Measuring system operates based on the time-of-flight method (ToF). It measures the distance from the reference point (process connection) to the product surface. Ultrasonic sensor send out ultrasonic wave and is emitted by an antenna, reflected off the product surface and received again by the ultrasonic sensor. The time from emission to reception of the signals is proportional to the level in the vessels. A special time stretching procedure allows reliable and precise measurement of the extremely short signal running times.

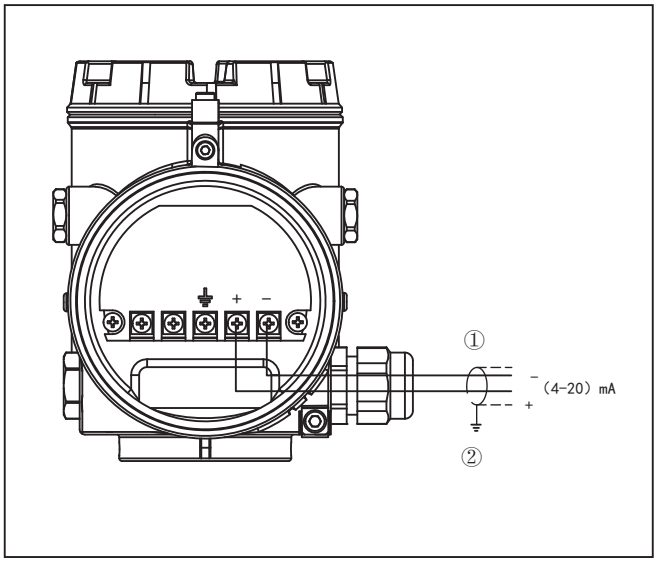
Technical data

Sensor type	Integrated
Application	Liquid
Measuring range	0~12m
Power supply	24VDC/220VAC
Communication	RS485/RS232
Relay output	Integrated 2 channel relay
Power	<1W
Resolution	3mm
Beam angle	7.5°
Ambient temperature	-40℃ ~ 70℃
Process pressure	-1.0 kgf/cm² ~ 2 kgf/cm²
Process fitting	Thread
Antenna material	PTFE,PVDF
Protect level	IP67
Electric entry	2XM20*1.5 (cable diameter 9~13mm)

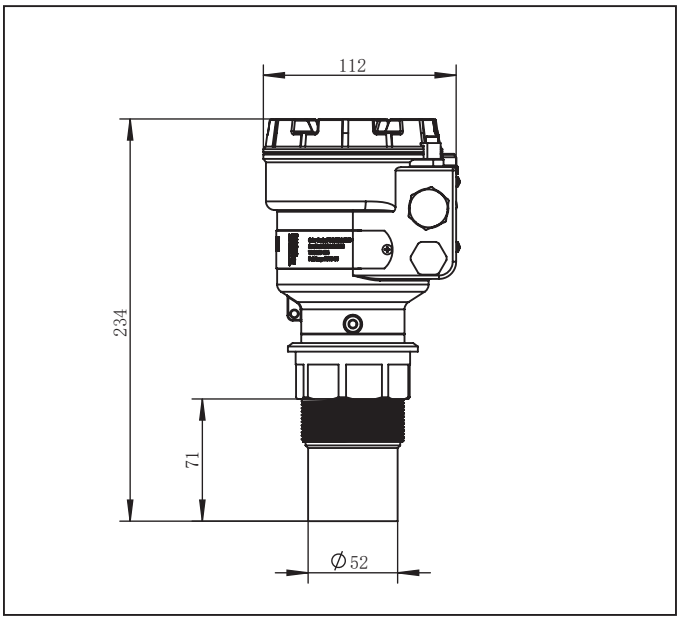
0802-0510-01MSS15040110

Add: 170-422 RICHARDS STREET VANCOUVER BC V6B 2Z4, CANADA
Tel: 001-604-2826573·Fax:001-604-2826575
Web: www.rockhill.ca·Email: sales@rockhill.ca

Electrical connection

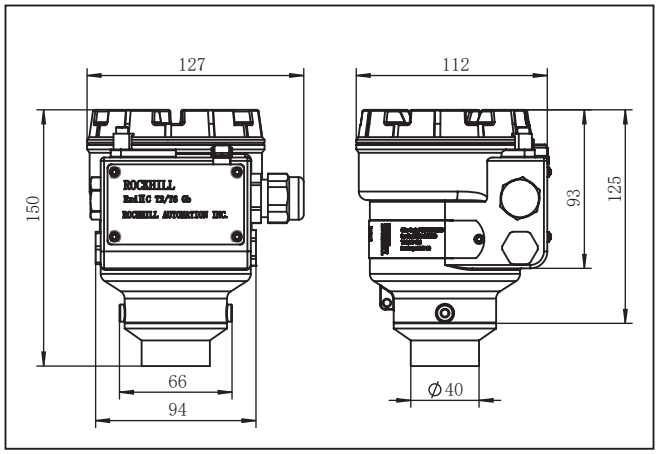


Electronics and terminal compartment, double chamber housing
1 Voltage supply/Signal output
2 Ground terminal for connection of the cable screen



Dimensions ROHEVEL-UST1201 with standard probe

Dimensions



Dimensions ROHEVEL-UST1201 housing

How to order

ROHEVEL-
UST1201 -A2RCSAF-3FB3AX-01B

- Application code
- Flange fitting option
- Sensor configuration
- Versions

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Sensor configuration

A 2 R C S A F

Process fitting
- A Thread G2”
- C Mounting bracket
- F Flange

Relay
- A With
- B Without

Probe material
- S PBT
- T PTFE

Measuring range
- C 0~12m

Communication
- R 4~20mA RS232
- M 4~20mA RS485
- Z Special order

Power supply/Output
- 2 24VDC Two wire
- 3 24VDC Four wire
- 4 220VAC Four wire
- 0 Special order

Housing material
- A Cast alminium
- B Stailess Steel

Flange fitting option

3 F B 3 A X

Counter flange
- X None
- A 304
- B 316L
- C Q235
- Z Special order

Flange material
- A 304
- B 316L
- C Q235
- D PP
- E PTFE
- Z Speical order

Flange surface type
- 2 Solid flange
- 3 RF raised face flange
- 4 FM male and female face flanges
- 5 M male face flanges
- 6 TG tongue and groove face flanges
- 7 FF flat face flange
- 8 RJ ring joint face flanges
- 0 Special order

Flange pressure level
- X Solid flange
- A PN2.5
- B PN10
- C PN16
- D PN25
- E PN40
- F Class150
- G Class300
- H Class600
- I Class900
- Z Special order

Flange sizes
- A 2"(DN50)
- B 3"(DN80)
- C 4"(DN100)
- D 5"(DN125)
- E 6"(DN150)
- F 8"(DN200)
- G 10"(DN250)
- Z Special order

Flange standard
- 2 ANSI B16.5
- 3 EN1092-1
- 4 Solid special flange(8mm)
- 0 Special order

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