ROCKHILL

Specification sheet

ROHEVEL-MGS51

Microwave level switch for bulk solid and liquid level detection

Working principle

The ROHEVEL-MGS51 type microwave level switch is a level switch consisting of a emitting unit (ROHEVEL-MGS51T) and a receiving unit (ROHEVEL-MGS51R) installed face to face.
The emitting unit emits a continuous, low power microwave beam towards the receiving unit. If there is medium between emitting unit and receiving unit, the signal is damped. This change is detected by the build-in electronics module and converted into a switching command.

Features

•Apply the design of high performance PLL based on VOC
•With the microwave energy and frequency monitoring and predicting system
•With functions of adherence warming, electronic compo nents temperature monitoring, hardware breakdown self-checking
•Multi-band output. Each couple of switches can be set microwave frequency separately to avoid interfere of multi couple of switches used at close range
•With IV level EMC capability
Connectable to LCD display unit and support remote display of history temperature curve and energy curve
•Gas ex-proof and dust ignition-proof
•Digital energy display and human-computer interaction design (key plus menu)

Application

The level switch has wide application across all areas of industry where highly reliable, non-contact level detection is required. The level switch is generally used for process control by monitoring presence/absence of product, flow /no flow conditions and point level detection in bins and silos. The level switch may also be used as a proximity switch for detection of vehicles such as dump trucks and rail cars. It can also measure from the lightest to the heaviest bulk solids with absolute reliability, even in the presence of dust and noise, without being affected by buildup or condensation.

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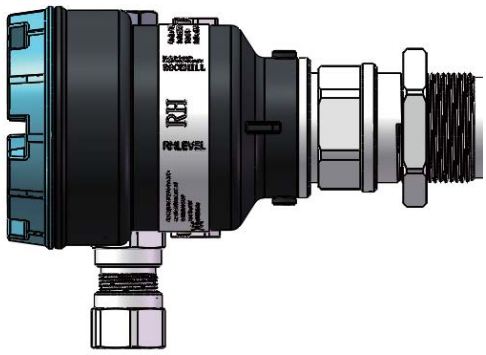
ROHEVEL-MGS51



Specification

Application	Bulk solid and liquid level detection
Measuring range	0~500m
Power supply	AC100~240V±10% /DC11V~32V±10%
Frequency	22~24GHz
Beam angle	± 20°
Delay time	0~99S (adjustable)
Power	3W
Channel no.	8
Frequency accuracy	1MHz
Process fitting	Thread or flange
Seal material	FKM(Viton)
Antenna material	PTFE
Ambiement temperature	-40~70℃
Process temperature	-40~120℃ up to 500℃ with adapter
Process pressure	-1~4bar up to 40bar with adapter
Protect level	IP67
Ex certificate	Ex d Ⅱ CT6 Gb and Ex TDA21 T80℃

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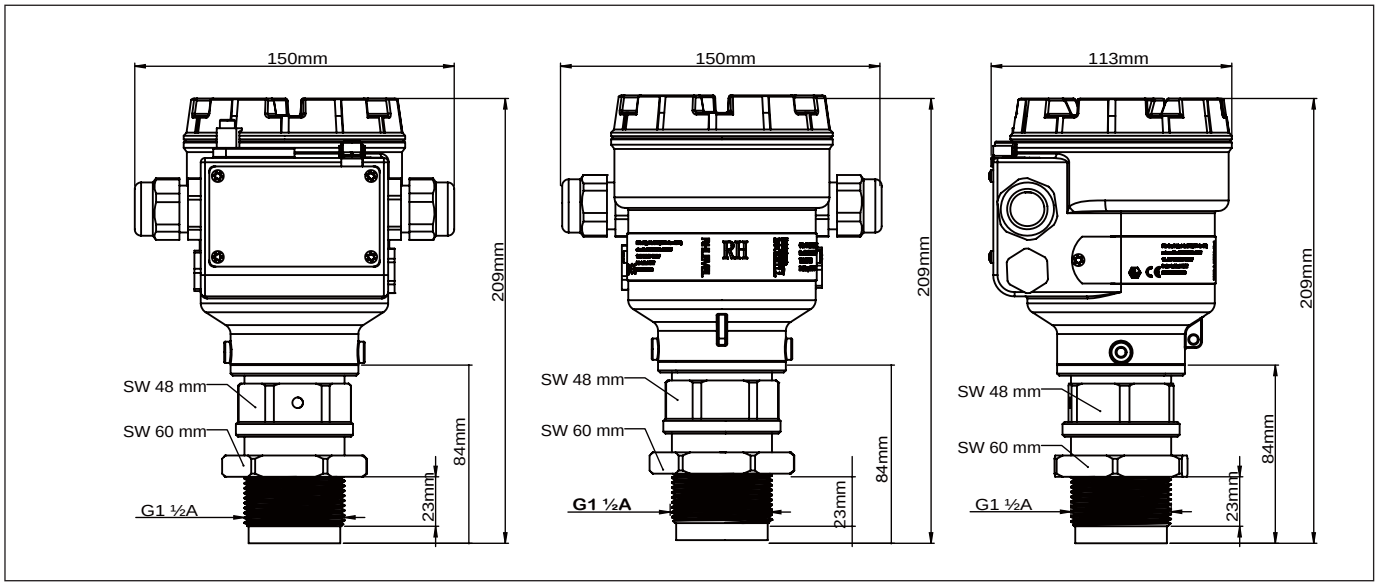
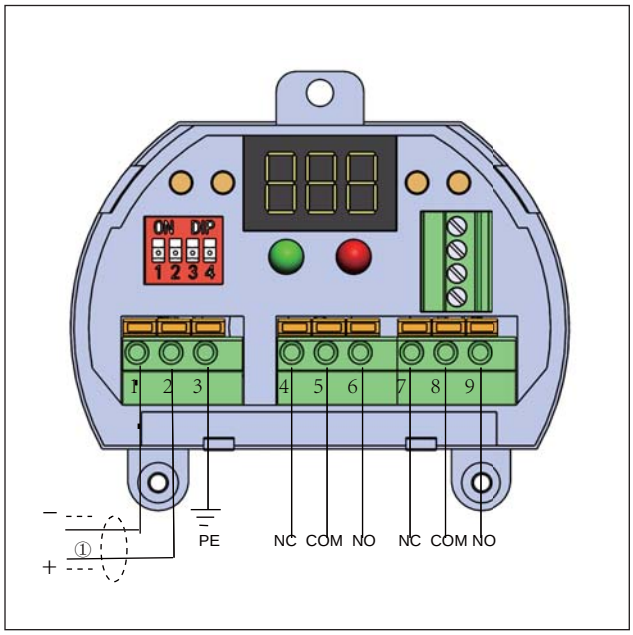
Dimension

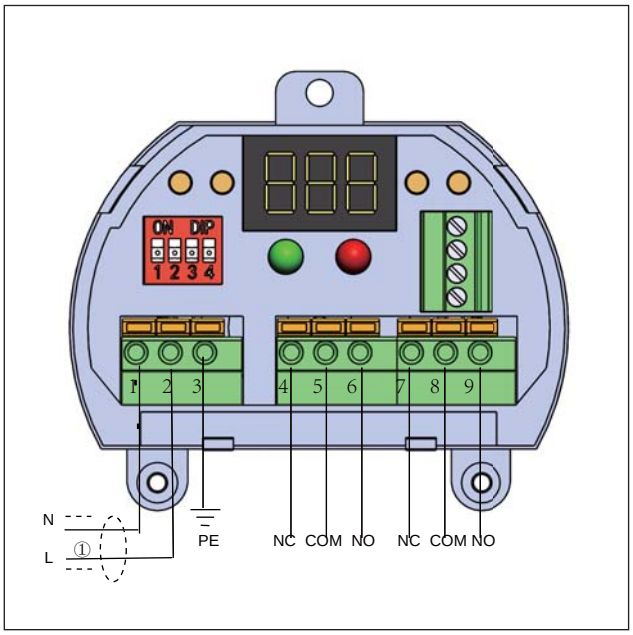


Electronics

Electronics of receiving unit



① *24V voltage* supply



① *220V voltage* supply

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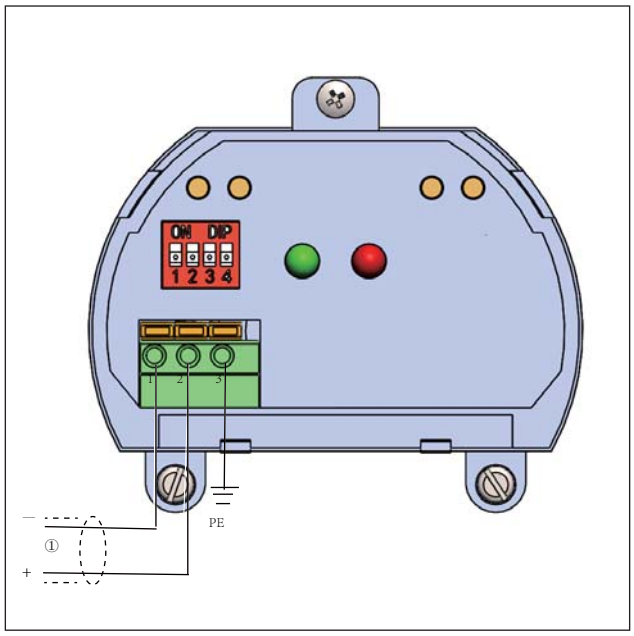
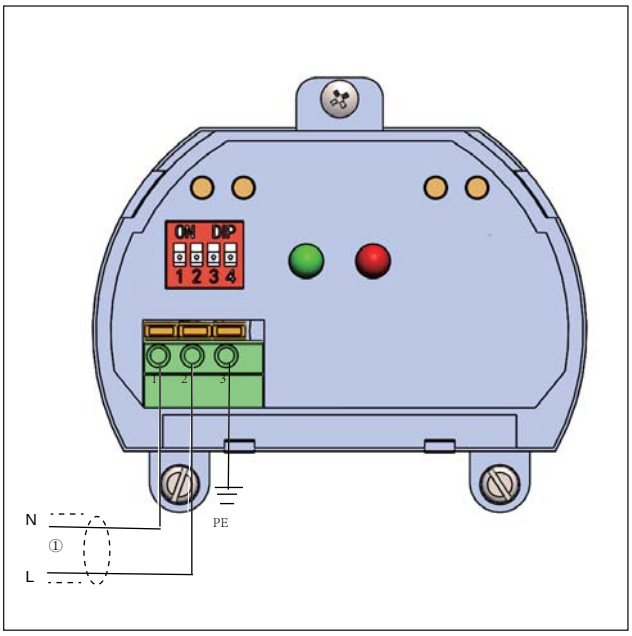
Electronics of emitting unit



① *24V voltage* supply



① *220V voltage* supply

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Ordering code

Microwave level switch emitting unit

ROHEVEL-MGS51 T A 2 A C B A

- **Certification**
- **Configuration**
- **Switch type**
- **Instrument Version**

ROHEVEL-MGS51 T A 2 A C B A

Certification

X Standard
B Exd IIC T6Gb; Ex tD A21 IP67 T80℃

Mounting accessaries

A No
B Welding base
C With mounting adapter
Z Customized

Remote output

A No remote output
C With remote output

Antenna type

A Internal antenna
B Conical antenna
C Horn antenna
Z Customized

Power supply

2 DC 11~32V
3 AC 100~240V ±10% 50/60Hz
0 Customized

Housing

A Aluminum
B Stainless steel
Z Customized

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Ordering code

Microwave level switch receiving unit

ROHEVEL-MGS51 R A 2 B A C A A

- **Certification**
- **Configuration**
- **Switch type**
- **Instrument Version**

ROHEVEL-MGS51 R A 2 B A C A A

Certification

X Standard
B Exd IIC T6Gb ; Ex tD A21 IP67 T80℃

Mounting accessaries

A No
B Welding base
C With mounting adapter
Z Customized

Remote output

A No remote output
C With remote output

Antenna type

A Internal antenna
B Conical antenna
C Horn antenna
Z Customized

Output

B DPDT relay
Z Remoted output

Power supply

2 DC 11~32V
3 AC 100~240V ±10% 50/60Hz
0 Customized

Housing

A Aluminum
B Stainless steel
Z Customized

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