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RF Admittance Level Switch (Remote Type)



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PRODUCT INTRODUCTION

PRODUCT DESCRIPTION

RF Admittance level switch is appropriate for application in liquid and solid mediums.

It is designed to reduce medium attaching to the probe.

This product also offers SPDT output, high/low level failsafe, adjustable time delay, and sensitivity adjustment. Various models are available for high temperature, or limited space environments.

FEATURES

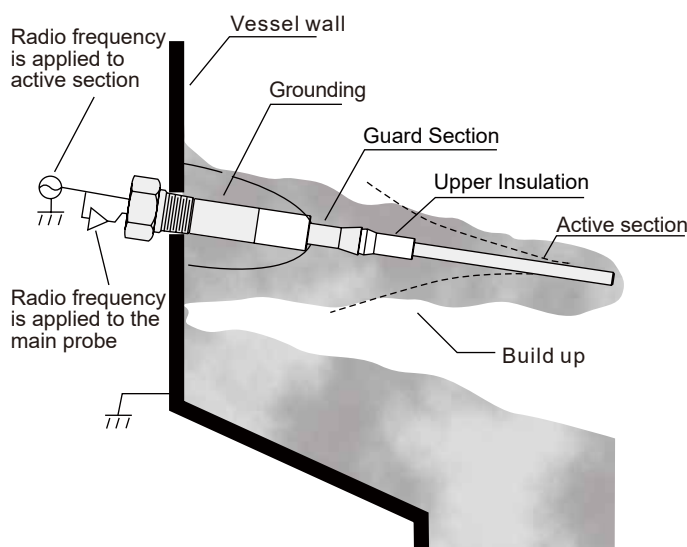
- Anti-Viscosity
- Easy Installation
- Stable; not affected by temperature
- Time delay function from 0.5~8 seconds
- IP65 housing protection
- 5A / 250 Vac output SPDT
- High/low failsafe
- Applicable in liquid, syrup, solid, powder, and surface level detection
- Alarm testing

WORKING PRINCIPLE

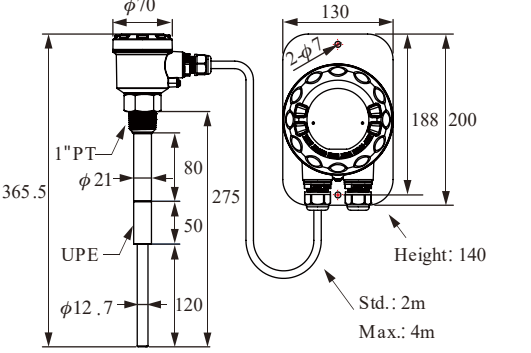
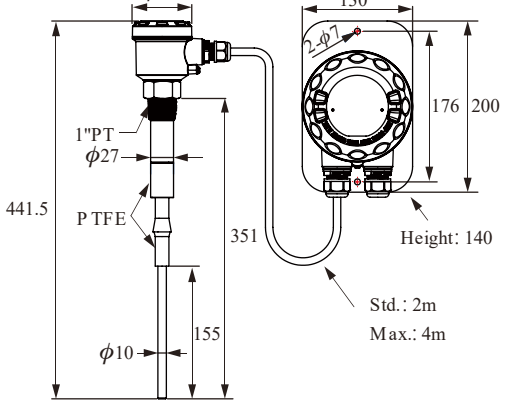
RF Admittance level switch consists of a guard section, upper insulation, main probe and grounding. The guard section is designed to overcome possible medium attachment and to secure signal accuracy. The special structure is suitable for detecting different mediums without being affected by attachments.

The upper main probe, guard, and grounding are all insulated. The level of the medium can be detected by the increasing of admittance when medium reaches the main probe.

The grounding and the main probe are insulated, thus the device will still function accurately and not cause false alarms when the medium attaches the probe.



SPECIFICATIONS

Dimension (Unit:mm)		
Model	SBX204 [Remote type]	
	None	Anti-Viscosity
Operating temp.	-20°C~85°C	
Ambient temp.	-20°C~85°C	
Housing	Aluminum(IP65)	
Probe material	SUS304 /316	
Insulated material	UPE	PTFE
Connection	1" PT (SUS)	
Sensitivity	MAX: 10pF	
Supply voltage	100~240 VAC 50/60Hz or 24VDC ±20%	
Power consumption	Max.2W	
Contact rating	One SPDT 5A, 240VAC	
	One MOSFET 400 mA, 60 VAC/VDC	
Delay time	0.5~8 sec	
Fail safe mode	High / low Fail safe mode	
Cable entry	3/4" NPT x2 hole	
Operation pressure	Max. 20 bar	
IP protection	IP65	
Cable length	Max. 4M	

ORDER INFORMATION

SBX20400 - ☐ ⁰⁹ ☐ ¹⁰ **A** ☐ ¹² ☐ ¹³ ☐ ¹⁴ ☐ ¹⁵ ☐ ¹⁶ ☐ ¹⁸ ☐ ¹⁹ ☐ ²⁰ ☐ ²¹ ☐ ²² ☐ ²³ ☐ ²⁴ ☐ ²⁵ ☐ ²⁶ ☐ ²⁷ ☐ ²⁸ ☐ ²⁹ ☐ ³⁰ ☐ ³¹

⁰⁹ ¹⁰ Type

0A: None Anti-Viscosity ϕ 12.7 standard type
1A: Anti-Viscosity ϕ 10 standard type
1B: Anti-Viscosity ϕ 16 standard type

¹² Power supply

A: AC100~240V 50/60 Hz
B: DC24 $\pm$ 20%

¹³ Output

R: RELAY
M: MOSFET

Connection

¹⁴ ¹⁵

Flang item
AK: JIS-FF
AN: ANSI-RF
AS: DIN-FF

¹⁶ ¹⁷

A8: 1"
B1: 1-1/2"
B2: 2"
B4: 2-1/2"
D8: DN25
D9: DN32
E1: DN40
E2: DN50

¹⁸ ¹⁹

01: PT male
03: PF male
07: NPT male
40: 5 kg/cm²
42: 10 kg/cm²
48: 150 Lbs
49: 300 Lbs
57: PN10
58: PN16

²⁰ ²¹ Insulated material

21: PTFE (Only for Anti-Viscosity)
33: UPE (Not for Anti-Viscosity)

²² ²³ Probe material

MA: SUS304
MB: SUS316

²⁴ ²⁵ ²⁶ ²⁷ Cable length

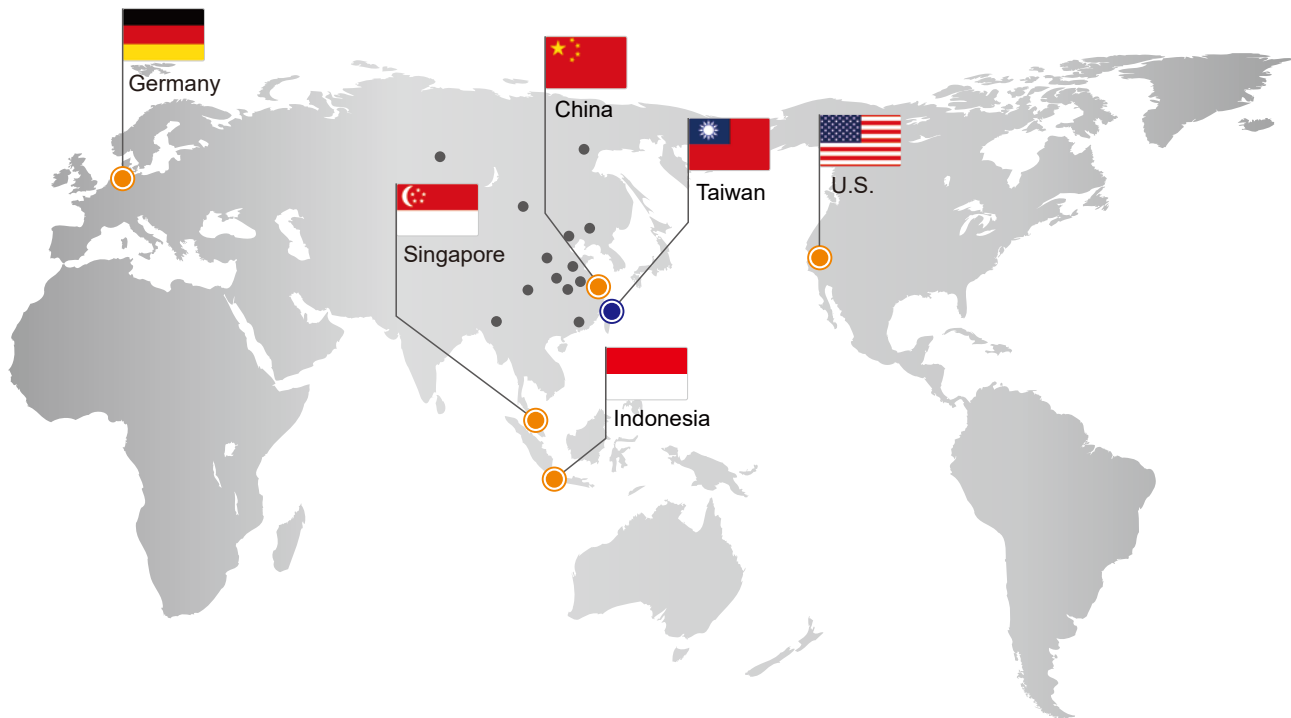
Code	Probe length
0500~4000	0500~4000mm

²⁸ ²⁹ ³⁰ ³¹ Probe length

None Anti-Viscosity	ϕ 12.7 (Std. type)	0275	3500	275mm(Std.)~3500mm(Max.)
Anti-Viscosity	ϕ 10 (Std. type)	0351	2000	351mm(Std.)~2000mm(Max.)
Anti-Viscosity	ϕ 16 (Std. type)	0475	1000	475mm(Std.)~1000mm(Max.)

P.S: Cable length + Probe length $\leq$ 4000mm

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