CAPACITANCE TYPE LEVEL SWITCH

Model ALN/SL



Our continuous product improvement has got highly stable & reliable detection come true. ALN/SL can be the best selling line with some possible improvements added in the years to come.

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ALN

Highly stable & reliable detection. Offers guaranteed solutions every applicatioan.

The Model ALN is the versatile Capacitance Type Level Switch that can detect the level of sediments in liquid, interface between two different liquids as well as the level of high-insulating powders/granules, conductive liquids/viscous liquids and others. It is one of the highly efficient detectors which KANSAI Automation Co., Ltd. has developed to ensure a correct level detection under such conditions requiring the high technology as varied measuring materials, complex/harsh products and so on. Through our long-term experiences and achievements, use of quality materials and strict quality control, we have here provided you with more stable and more reliable products.

■ Standard Specification

Instrument Power Source: 105 / 210VAC ±10% 50/60Hz

Power Consumption: 4.5VA

Output Contact: SPDT 250VAC 5A 30VDC 5A (Resistance load)

Ambient Temperature Allowance : -25°C to +60°C

Stable Detection Range: 1. High Sensitivity 0.5–20pF

2. Standard Sensitivity 2-50pF3. Low Sensitivity 20-1,000pF4. Ultra Low Sensitivity $5-35\Omega$

Delay Time Setting: Max.10 seconds, variable

Vibration: 2mm 600 – 3,600 /min

in all direction for three hours

Enclosure Rating: IP67 equivalent

Painting Color: Gold

As for ALN Type, a product with 24VDC can be ordered.

■ Specification-probe (Standard)

Withstand Load at Electrode: Top End Load (\(\ext{\ell} = 250 \) 1kN (100kg)

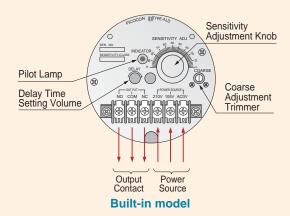
Withstand Pressure at Electrode: 1MPa

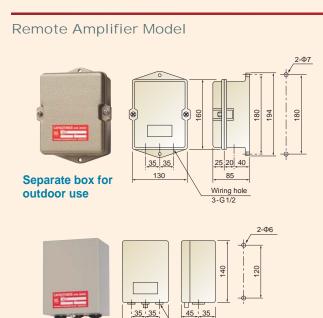
Allowable Temperature at Electrode: -25°C to +80°C

Impact: 9.8kGa (10G) at electrode

■ Delay Time Setting

The output relay motion can be delayed continuously and variably by up to ten seconds from the time of detection. (the pilot lamp lights) Set the delay time by the setting Volume as required. When the wetted time is shorter than the set delay time, however, the output relay does not operate.





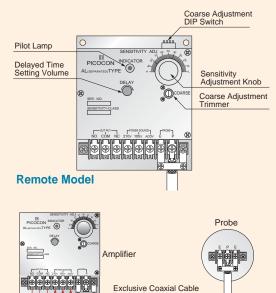
110

Separate box for

indoor use

80

Wiring hole



RG63B/U

Wiring Diagram

(External diameter Φ10.5)



INTRINSIC SAFETY **EXPLOSION-PROOF** CONSTRUCTION (i) 3nG5 LABOR INSPECTION No.26358

Certified as intrinsic safety explosion-proof construction, can be applied to every shape of electrode. Certified according to

This type is one of the safest explosion-proof instruments to be applied in hazardous areas where Water Gas, Hydrogen, Carbon Disulfide and others exist. You can use it safely in such ambient atmospheres as all kinds of combustible gases and flammable liquids.

Chinese Govern Explosion-proof.



■ Standard Specification

Instrument Power Source: 105V / 210 VAC ±10% 50/ 60Hz

Power Consumption: 4 VA

Output Contact: SPDT 100VA (200VAC Max, 2A Max)

1. High Sensitivity 0.5 – 20pF 2. Standard Sensitivity 2 – 50pF Stable Detection Range: 1. High Sensitivity

3. Low Sensitivity 20 - 1,000pF

Vibration: 2mm 600 - 3,600 / min

in all direction for three hours

Enclosure Rating: IP67 Painting Color: Gold

■ Specification-probe (Standard)

Withstand Load at Electrode: Top End Load (ℓ=250) 1kN (100kg)

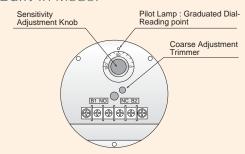
Withstand Pressure at Electrode: 1MPa

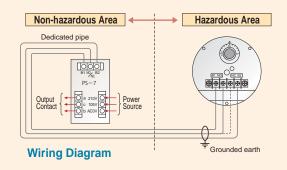
Ambient Temperature Allowance : -25°C to +80°C

Impact: 9.8kGa (10G) at electrode

■ Remote Model 160 180 194 35 35 25 20 40 85 Separate box for outdoor use Wiring hole 3-G1/2 **Power Source**

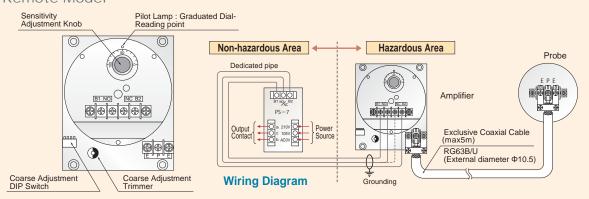
Built-in Model

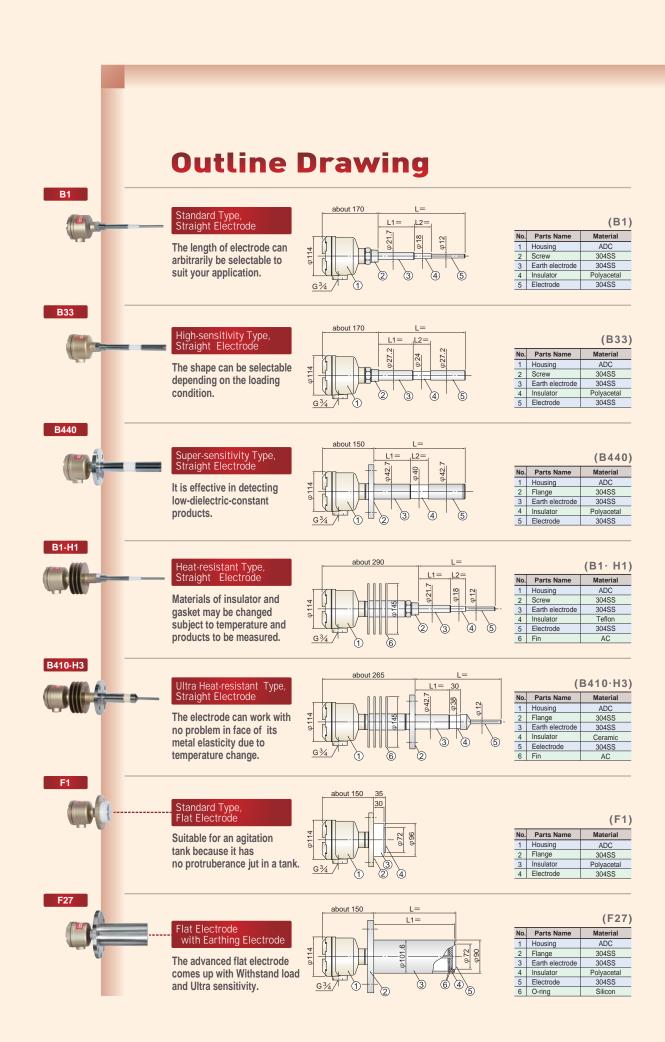


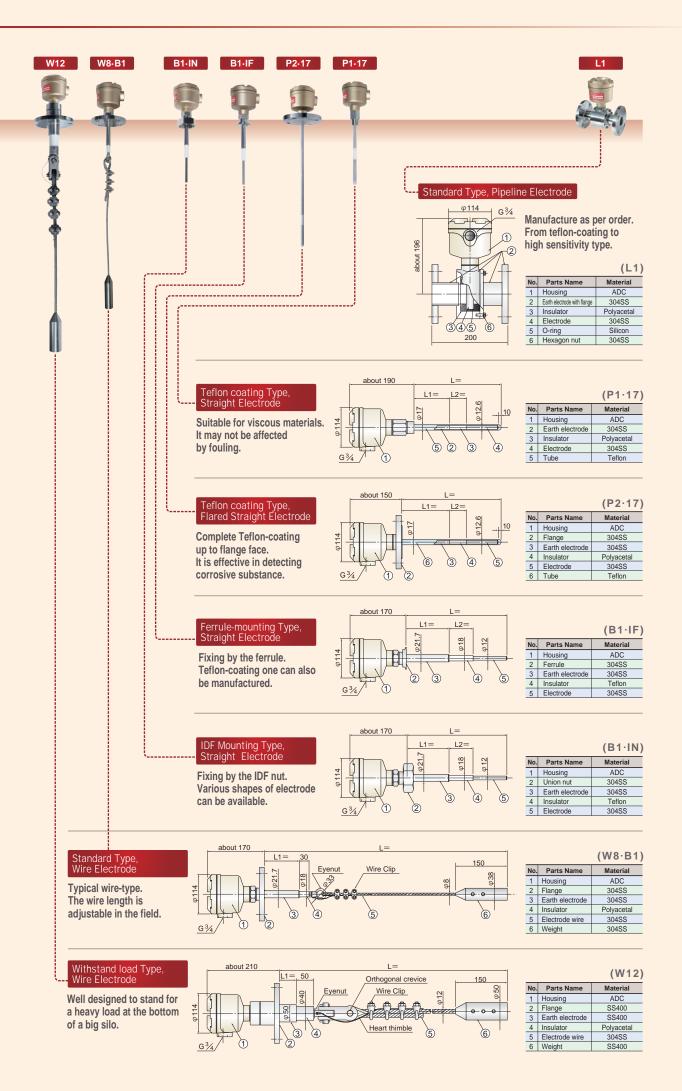


Unit (PS-7)

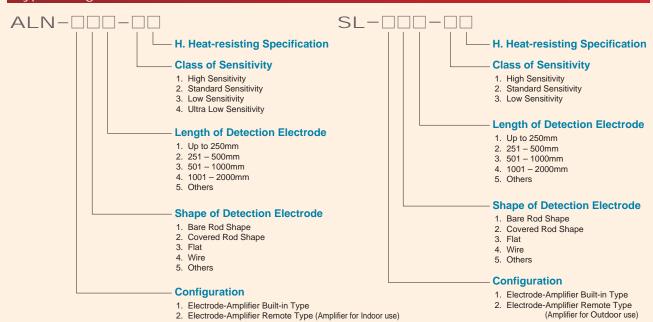
Remote Model







Type Designation



3. Electrode-Amplifier Remote Type (Amplifier for Outdoor use)

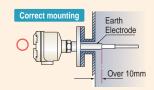
Please provide us with the following information when inquiring and ordering				
Name of material to be measured	[]			
2. Dielectric constant, conductivity	[]			

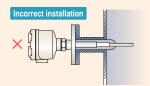
2. Dielectric constant, conductivity	
3. Material Liquid • Powder (Gra	anularity) • Slurry (cp)
4. Tendency to buildup	[Yes • No]
5. Corrosive	Yes • No
6. Tank Materials	[]
7. Agitator etc.	[Yes • No]
8. Service Temperature	[°C]
9. Service Pressure	[Pa]
10.Detection Point	Upper • Lower • etc
11.Mounting	Vertical • Horizontal • Tilt•etc
12.Process Connection	Flange • Screwed • etc
13.Height of Standpipe	[mm]
14 Electrode Length	[]

Sensitivity					
Model	Class	Dielectric Constant			
ALN SL	High sensitivity (0.5 – 20PF)	1.5 – 7			
ALN - DD - 2	Standard sensitivity (2 – 50PF)	7 – 80			
ALN - BL - 3	Low sensitivity (20 – 1,000PF)	Over 70			
ALN	Ultra low sensitivity (5 – 35Ω)	Resistance value $5-35\Omega$			

■ Instruction On Setting

Earth electrode must be protruded at least 10mm, inside the tank if the buildup is heavy then more than 50mm.





(Amplifier for Outdoor use)

Line of business

- Rotary Paddle Type Level Switch
- Vibration Type Level Switch
- Swing Type Level Switch
- Acoustic Level Switch
- Capacitance Type Level Switch
- Capacitive Proximity Sensor
- Capacitance Type Level Indicator
- Diaphragm Type Level Switch
- Tilt Switch
- Leak Type Level Switch
- Microwave Switch

- Conductance Type Level Switch
- Float Switch
- Float Type Level Indicator
- Ultrasonic Type Level Indicator
- Equipments For Conveyor Lines
- Dust Monitor System
- Zirconia Oxygen Analyzer
- Laser Type Level Indicator
- RADAR Type Level Indicator
- On-line Sensors for Accurate
- Liquid Analysis
- Sounding Bob Type Level Indicator Ultrasonic Flow meter
- Flow Switch

*Please be sure to read USER'S GUIDE, Installation & Operation Instructions before using the instrument.

*The specifications herein may be subject to change without advance notice

All-round Manufacturer of Level Controllers for Powder, Granules and Liquid

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Agent			