Distributor: Sider Electronic Industries Ltd. Tel: 852-23892522 Fax: 852-23574546

Email: info@sider.com.hk URL: www.sider.com.hk

# 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/SL CAPACITANCE TYPE LEVEL SWITCH

**ABUNDANT EXPERIENCE &** 

OUR ACHIEVEMENTS IN THE MARKET C

OUR PRIMARY PRODUCT, ALL-PURPOSE C

LEVEL SWTICH, BASED ON OUR EXCELLENT TECHNOLOGY

NSULATOR

EARTH ELECTRODE

ELECTRODE

IN ACCORDANCE WITH VARIOUS APPLICATIONS, WE CAN PROVIDE WITH VARIOUS ELECTRODES THAT FALL INTO 1000 CATEGORIES AND WITH SPECIAL CIRCUIT.





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# **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 10A, 30VDC 10A

Resistive load

Ambient Temperature Allowance : -25°C~+60°C Stable Detection Range: 1. High Sensitivity 0.5~20pF

2. Standard Sensitivity 2~50pF

3. Low Sensitivity 20~1,000pF 4. Ultra Low Sensitivity 5~35Ω

Delay Time Setting: Max.10 seconds, variable

Vibration: 2mm 600~ 3,600 /min

in all direction for three hours

Enclosure: IP66 equivalent Painting Color: Gold

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

# **SPECIFICATION-PROBE**

(Standard Level Switch)

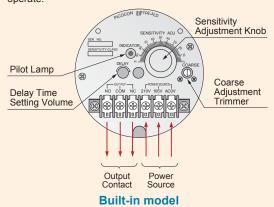
Withstand Load at Electrode: Top End Load (l= 250) 1kN (100kg)

Withstand Pressure at Electrode: 980kPa Allowable Temperature at Electrode: -25°C~+80°C

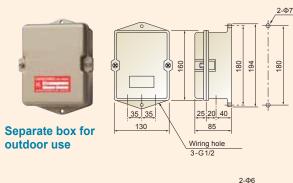
Impact: 9.8kGa (10G) at electrode

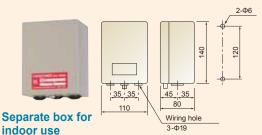
#### **DELAY TIME SETTING**

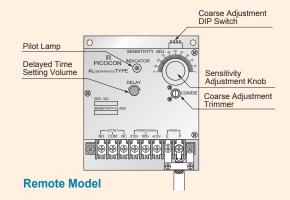
The output relay motion can be delayed continuously and variably by up to ten seconds from the time of detection. (the pilot lamp lights) Set the delay time by the setting Volume as required. When the wetted time is shorter than the set delay time, however, the output relay does not operate.

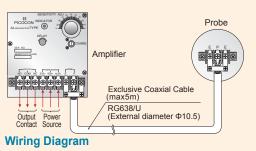


# **REMOTE AMPLIFIER MODEL**









Email: info@sider.com.hk URL: www.sider.com.hk



SL

No.26358

INTRINSIC SAFETY
EXPLOSION-PROOF
CONSTRUCTION
(j) 3nG5
LABOR INSPECTION

# CERTIFIED AS INTRINSIC SAFETY EXPLOSION-PROOF CONSTRUCTION, CAN BE APPLIED TO EVERY SHAPE OF ELECTRODE.

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.

Certified according to Chinese Government as 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)

**Stable Detection Range :** 1. High Sensitivity 0.5~20pF

Standard Sensitivity 2~50pF
 Low Sensitivity 20~1,000pF

**Vibration :** 2mm 600~3,600 / min

in all direction for three hours

Enclosure: IP66 equivalent

Painting Color: Gold

# **SPECIFICATION-PROBE**

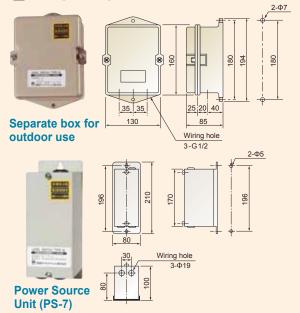
(Standard Level Switch)

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

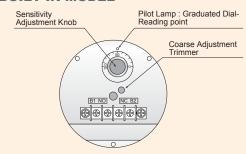
Withstand Pressure at Electrode: 980 kPa
Ambient Temperature Allowance: -25°C~+80°C

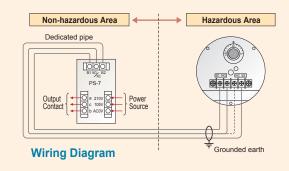
Impact: 9.8kGa (10G) at electrode

#### REMOTE MODEL

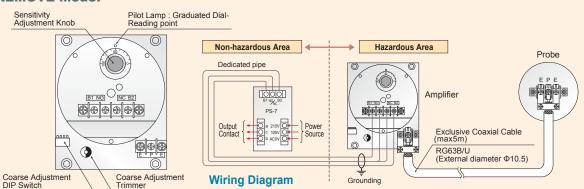


# **BUILT-IN MODEL**

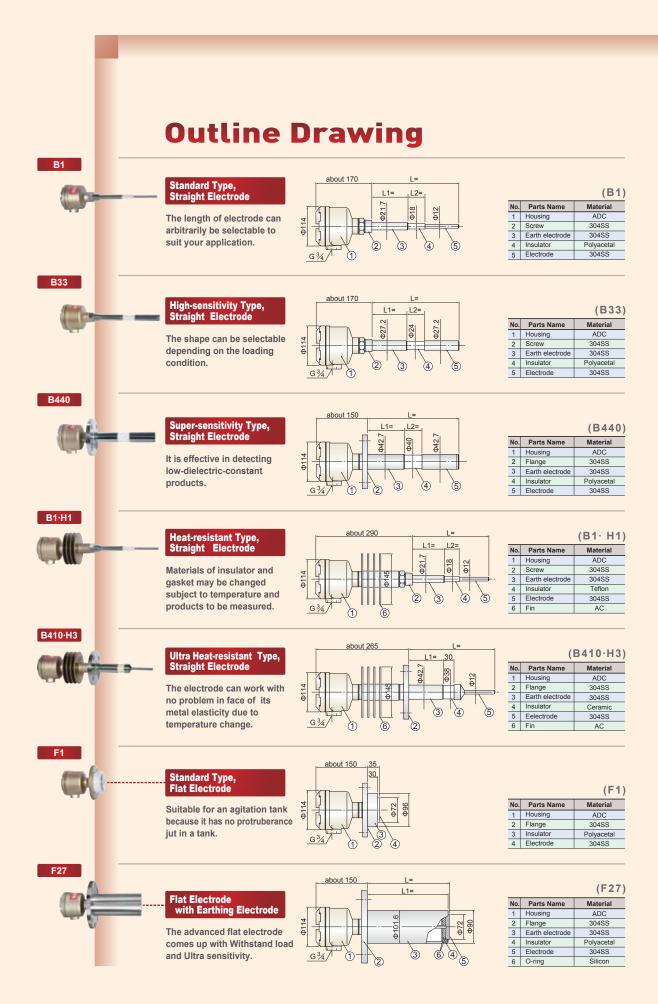




# **REMOTE Model**

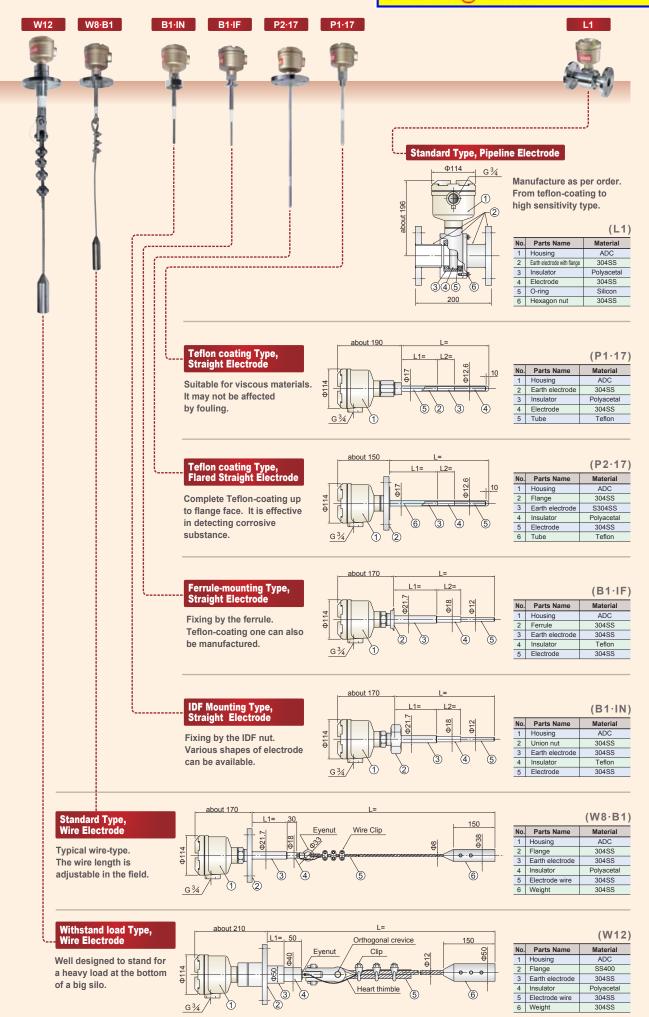


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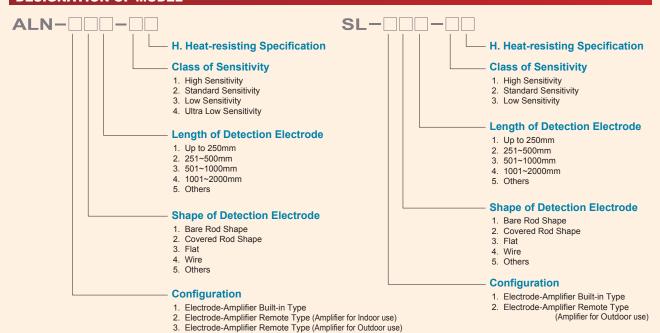
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# **DESIGNATION OF MODEL**

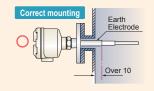


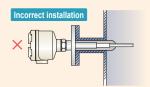
Please provide us with the following in	form	ation when inquiring and ordering		
1. Name of material to be measured	[	]		
2. Dielectric constant, conductivity	[	]		
3. Material [ Liquid • Powder (Granularity) • Slurry (cp ) ]				
4. Tendency to buildup	[	Yes • No ]		
5. Corrosive	[	Yes • No ]		
6. Tank 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	[	mm ]		

SENSITIVITY				
Model	Class	Dielectric Constant		
ALN -	High sensitivity (0.5~20PF)	1.5~7		
ALN - DD - 2	Standard sensitivity (2~50PF)	7~80		
ALN - 3	Low sensitivity (20~1,000PF)	Over 70		
ALN	Ultra low sensitivity (5~35Ω)	Resistance value 5~35Ω		

## **■ INSTRUCTION ON SETTING**

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





# 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.

Nuclear Power Generation to Rice Milling All-round Manufacturer of Level Controllers for Powder, Granules and Liquid



