

Capacitance Type Level Switch (Automatic Calibration and Self Testing)

Model : SCAP



Capacitance type level switch designed to be calibrated easily by using the automatic switch and detect even the variation of very low capacitance (1pF).

Features

- Simple adjustment
- Wide applications
- Selectable High/Low Alarm
- Memory function
- Self-diagnosis
- Availability of various probe types
- Detectable even the very low capacitance (1pF)
- Wide adjustable range (1~1,000pF)
- Adjustable probe length

Auto Simple Adjustment

Most capacitance level switches require setting the initial value against the measuring material. In most other products, it is a complicated procedure. However, SCAP AUTO simply accomplishes the task by using two small switches.

Function



RLY CAL LOW HIGH

The initial capacitance can be adjusted by using the high/low keys: Set Low with no measuring material on probe, Set High with measuring material on probe. An error code will appear if the initial condition is improperly set.

Auto Self-Diagnosis

SCAP AUTO diagnoses itself if there is a wrong adjustment or hardware problem. The green LED lamp inside the case can be used to pin-point the cause.

Delay Time



DELAY

Adjustable delay time of 0.5~10 seconds may be used to protect a motor or valve.

Auto Model Selection

Model	Type	Range(mm)
SCAP-1	Bar, Lining	250~1000
SCAP-2	Wire(Normal)	300~4,000
SCAP-3	Wire(High tension)	300~4,000
SCAP-4	Wire(Variable)	300~5,000
SCAP-5	Flat, Flash	63
SCAP-6	OverFlow	23~100

Auto Error Code Output



RLY CAL

An error code is produced if the initial condition is improperly set, there is a problem in the IC memory chip or in other hardware.

When red LED blinks	Cause
Error 1	When capacitance for low set is higher than that of high set.
Error 2	When capacitance is the same for low and high set.

H/L Alarm Selection

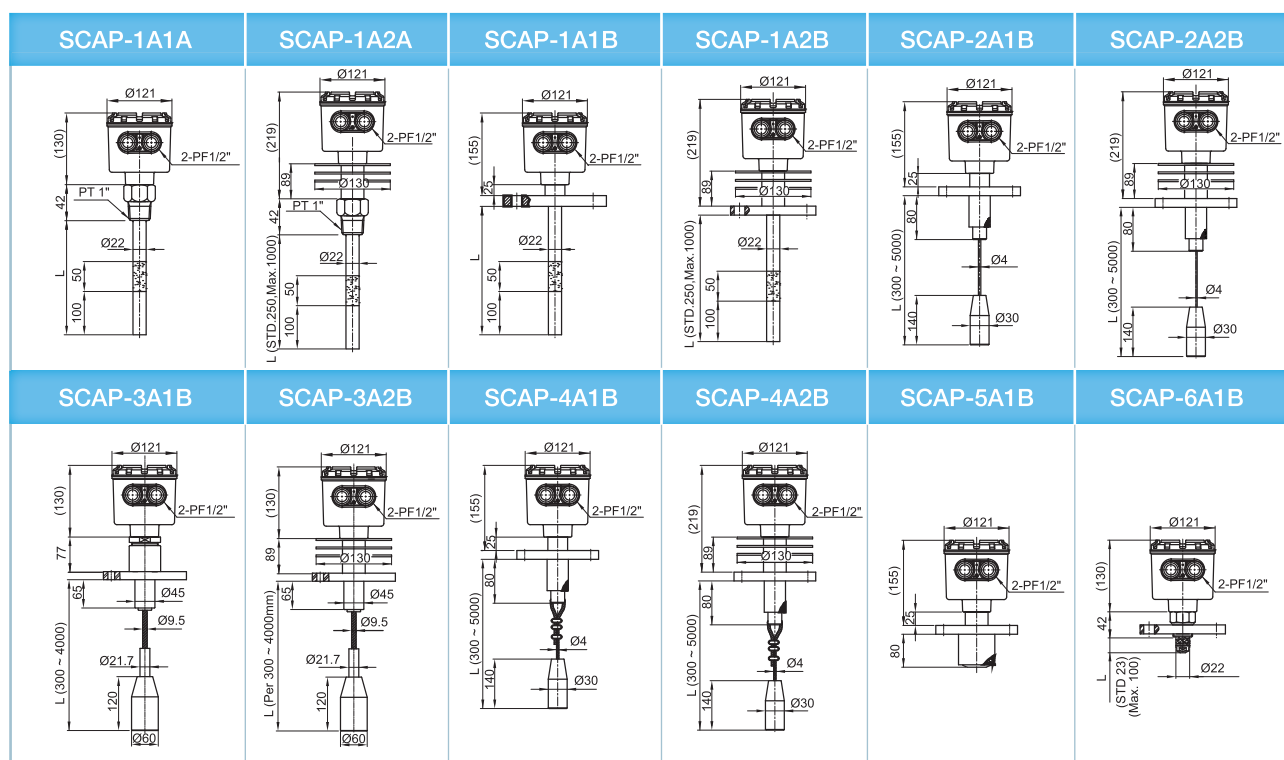


High/Low alarms can be set with a High/Low alarm switch.

Applications

Resin Powder, Resin Pellet, Fertilizer, Wheat Flour, Rice, Barley, Butter, Distilled Water, Chocolate, Iron Powder, Carbon Calcium, Interface Activate Source, Slurry, Sewage, Coal, Water, Wax, Live Cream, Sodium Carbonate, Paint Ink, Alcohol, Beer, Milling Water, Waste Water, Sludge, Make up lotion, Syrup, Sesame, Chromium Acid, Silicone, Carbon. etc.

Overall Dimension

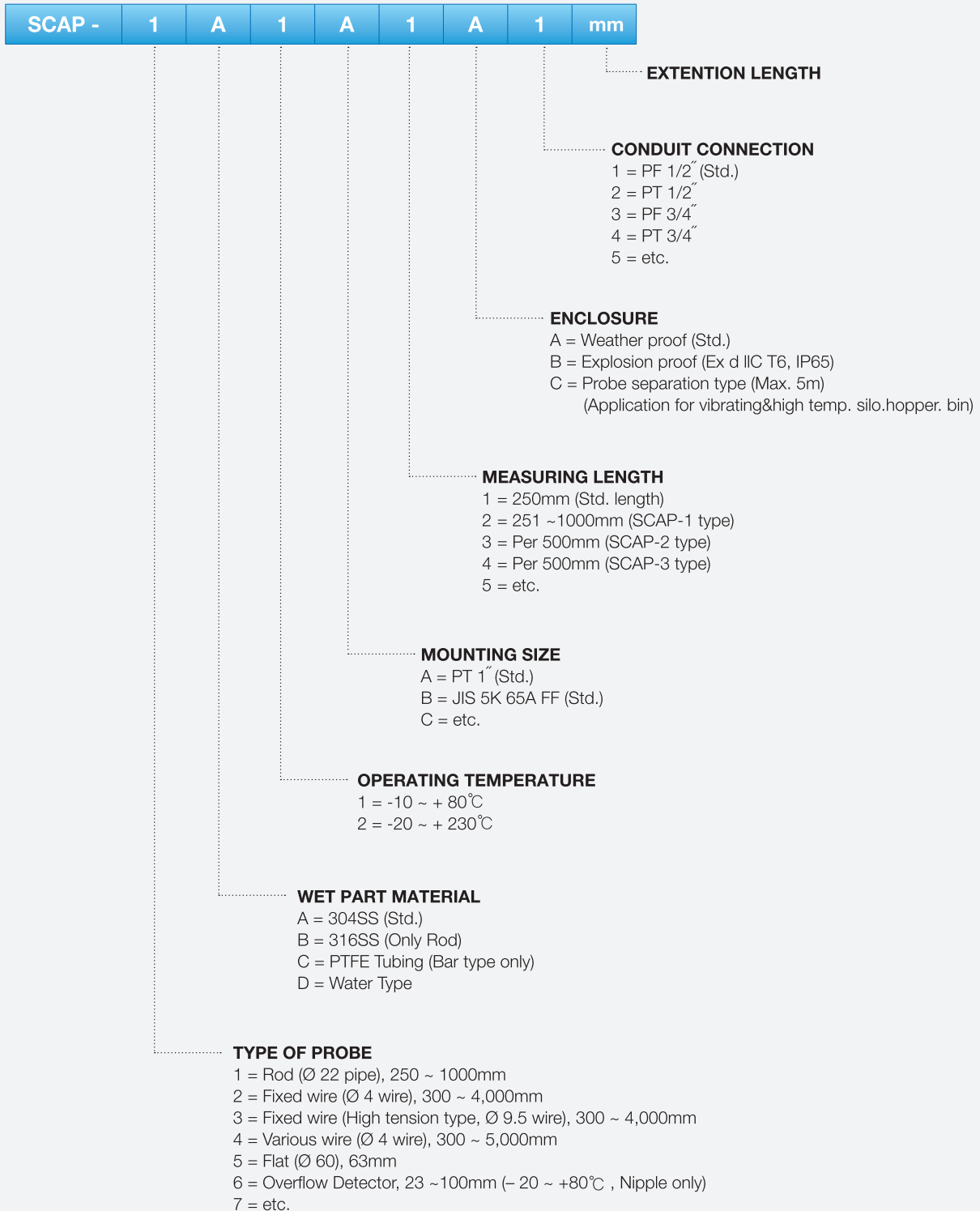


Specifications

Description	Type	SCAP-1	SCAP-2	SCAP-3	SCAP-4	SCAP-5	SCAP-6
Application		Powder Liquid, Solid	Powder, Solid	Powder	Powder, Liquid		Liquid
Measuring Length(mm)		250 ~ 1000	300 ~ 4,000	300 ~ 4,000	300 ~ 5,000	63	23 ~ 100
Measuring Range(pF)		10 ~ 1,000pF					
Output Contact		DPDT (5A. 250V AC , 5A 30V DC)					
Function		Auto Calibration (H/L setting, Data back up), H/L Alarm Set, Delay Time (0.5 ~ 10 Sec)					
Indicator		LED(Red) for Relay Output Display, LED(Green) for Calibrator/Error Display					
Pressure		1kg/cm ²					
Tensile Load(kgf/cm ²)		Approx 20	Approx 40	Approx 60	Approx 40	Approx 60	Approx 40
Temperature	Electronics(°C)	-20 ~ +60°C					
	Probe	-10 ~ +80 (-20 ~ +230)					-10 ~ +80
Power Supply		110V/220V AC ±10%, 50/60Hz					
Material	Head	ADC					
	Probe	304SS(316SS) / PTFE / PPS / Ceramic (Al ₂ O ₃)					
Enclosure	Electronics	Dust Proof / Explosion Proof					
	Probe	Weather Proof					
Mounting		PT 1" Nipple JIS 5K 65A Flange	JIS 5K 65A FF Flange (In Option for Other Flange)				PT1" Nipple
Explosion Proof		Ex d IIC T6, IP65					

Ordering Informations

■ Capacitance Type Level Switch



■ When placing an order, selected ordering number should be indicated on the purchase order sheet.



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■ Specifications subject to change without notice