

SPC600 series static capacitance level switch

WORKING PRINCIPLE

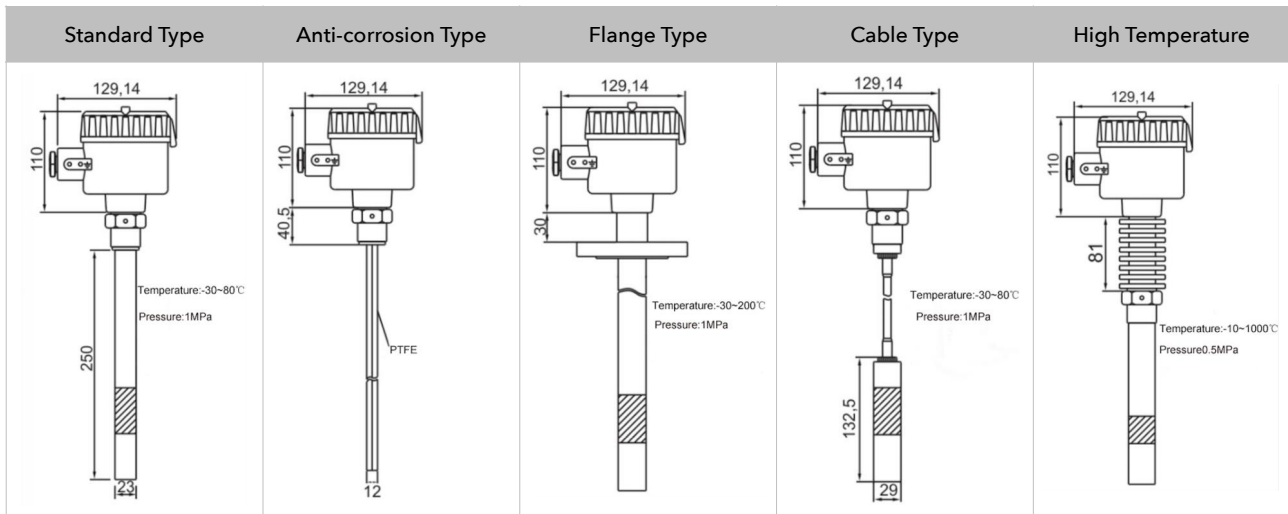
The capacitive level switch determines the presence of media or air by detecting the dielectric constant of the medium. Based on the capacitance formed between the capacitive level switch and the medium (liquid or air) it is in. When the probe tip of the electrostatic capacitance level switch is immersed in a liquid, the capacitance changes greatly, and a change in the state of the switch is formed to achieve the purpose of indicating and controlling the liquid level.



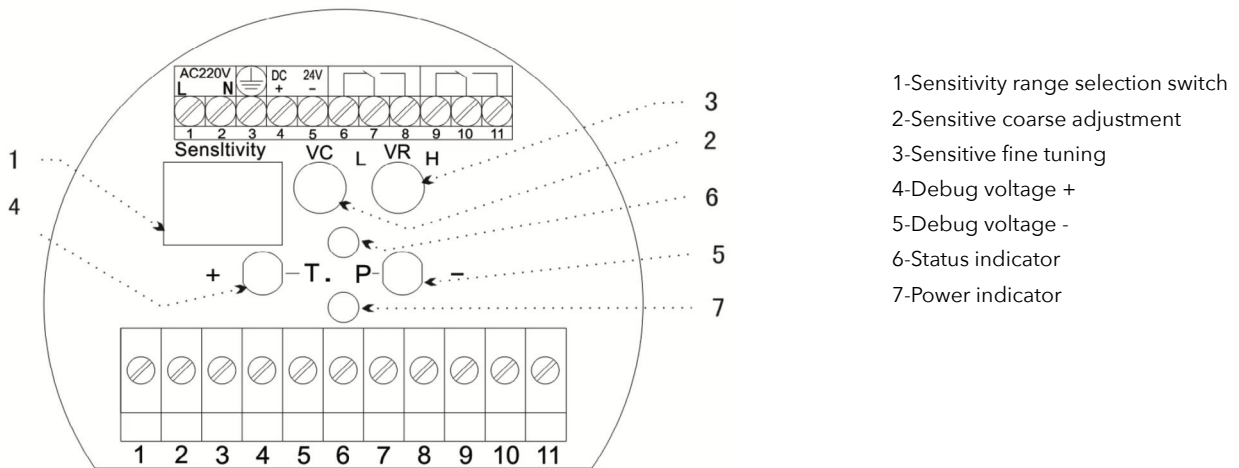
SPECIFICATION

ITEMS	PARAMETER
Measuring medium	Liquid/powder
Media density	≥0.3g/cm
Accuracy	±1mm, ±5mm
Instruction mode	LED,OLED liquid crystal display
Voltage	DC 24V / AC 220V
No-load current consumption	≤30mA, when powered by 24Vdc
Output signal	◇Switch output Output type: PNP / NPN optional normally open normally closed can be set Output current: <500mA Voltage drop: <1V ◇Current type analog output Output type: three-wire 0...20mA/4...20mA can be set Load RA: RA≤500ohm Linearity: ≤±1.5% of range ◇Voltage type analog output Output type: three-wire 0...5V/1...5V can be set Load RA: RA>10Kohm Linearity: ≤±1.5% of range
Wiring protection	reverse phase, overload, short circuit protection
Pressure range	-98Kpa~2Mpa
Temperature	◇Working temperature: -20...80°C ◇Medium temperature: -20...100°C (high temperature type: -50...200°C, higher temperature can be customized) ◇ Storage temperature: -30...80°C
Protection level	IP67
Shell material	Aluminum alloy/stainless steel 304
Sensor material	Stainless steel / stainless steel + PTFE / stainless steel + ceramic/PTFE/PEEK Natura
Connection method	M20*1.5/3/4"NPT/M12×1 or customized

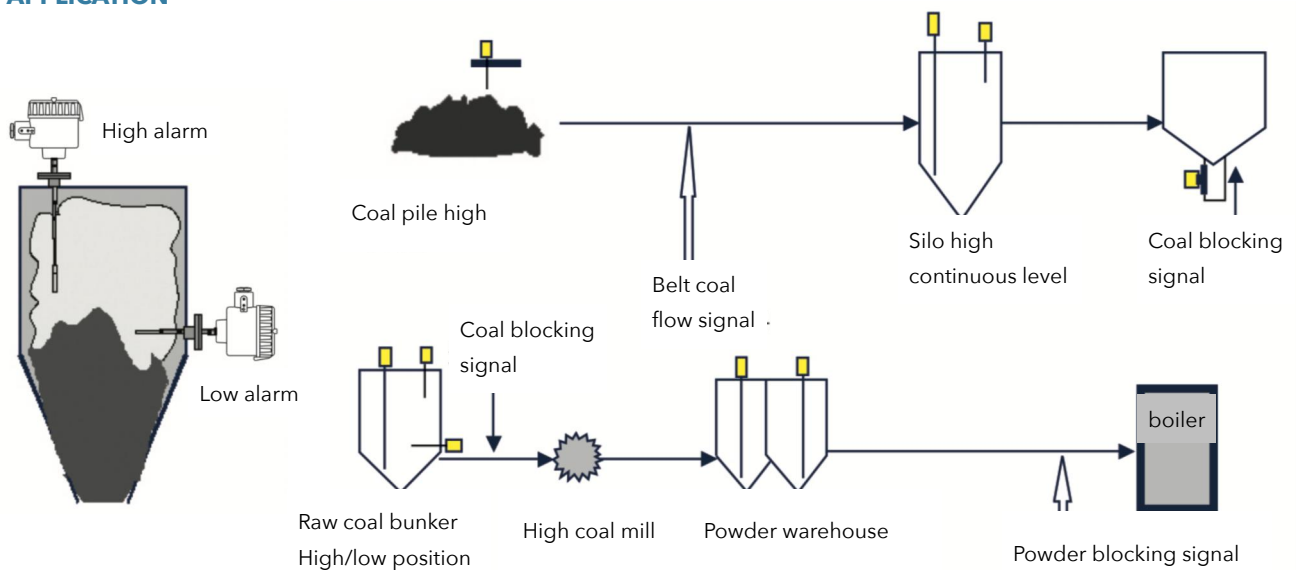
CONSTRUCTION



WIRING



APPLICATION



ORDER GUIDE

SPC600	static capacitance level switch						
	CODE	type					
	A	Ordinary type					
	B	High temperature type					
	C	Hygienic type					
	D	Anticorrosive type					
	CODE	Insertion depth					
	1	250m (standard)					
	2	Pole type extension 250-1000 optional					
	3	Cable type extended split 1-100m optional					
	CODE	Voltage					
	A	220V AC ±10%					
	D	24V DC ±10%					
	CODE	Material					
	1	304(standard)					
	2	316					
	3	Stainless steel + PTFE					
	CODE	Process connection					
	G	G1 "thread (standard)					
	T	1 "NPT thread					
	F	Flange installation (flange specification and standard shall be indicated)					
	C	Other customized					
	CODE	Other parameters					
	A	Normal temperature_° C					
	B	Normal pressure_Kpa					
	C	Protection level IP66					
	D	Flameproof level ExdIICT6					
	E	Maximum temperature _° C					
	F	Maximum pressure Kpa or Mpa					
	G	Other requirements					
SPC600	A	1	A	1	G	AB	Order example