ITS Series Position Monitoring Switch





First in Automation...







ITS series position monitoring switch boxes are primary a rotary position indication device designed to integrate valve and NAMUR rotary pneumatic actuator with a variety of mounting options, internal switches or sensors and configurations.

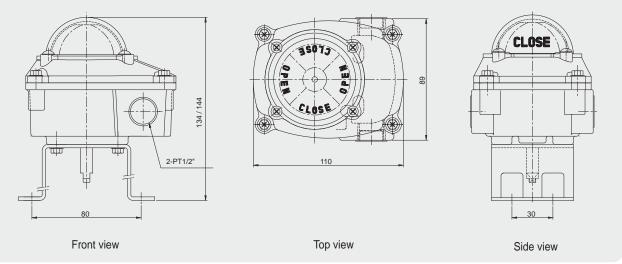
ITS 100 series

ITS 100 series are specially designed suitable for small size pneumatic actuator and valves to reduce installation space, but provides high performance by equipping a variety of switches and sensors.

SPECIFICATION	Standard	Option	
Enclosure	Weather proof IP67, O-ring sealed		
Outside coating	Epoxy-Polyester inside	Nylon Coating	
	and outside against corrosion	Special color Coating	
Ambient temperature	-20°C~+80°C		
Cable entries	2 - PT1/2", other standard threads (NPT1/2", PF1/2", M20x1.5 and PG13.5)		
Terminal block	ninal block 8 nos of terminal strips		
	(6 for switches, 2 for solenoid valve power)		
Position indicator	Dome type 0°~90°	Others(3 way L-port, T-port)	
Mounting bracket	Stainless steel acc. to VDI/VDE3845,	SS3, MT1 as option	
	NAMUR, SS1, SS2 as standard		
Switches(Sensors)	2-SPDT mechanical switch(Form C)	Proximity sensors(P & F, Autonics),	
	as standard	Others	

DIMENSION

ITS 100 series





Rigid and compact design constructed from aluminum alloy die-casting capable of operating even in arduous conditions

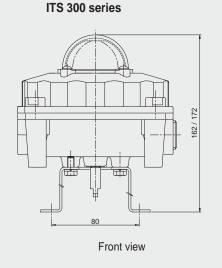
ITS 300 series

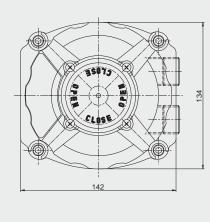
ITS 300 series are designed suitable for valve and actuators in hazardous area application, having compact but rubust construction conforms to EN50014 and 50018, also suitable in Zone 1 and 2, and ingress protection IP67 Standard aluminum housing provides reliable explosion proof performance.

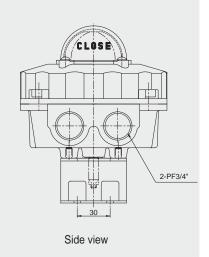


SPECIFICATION	Standard	Option	
Enclosure Outside coating	Explosion proof Ex d IIC T6, IP67, O-ring sealed Epoxy-Polyester outside against corrosion	IP 68 Nylon Coating Special color Coating	
Ambient temperature			
Cable entries	2 - PF3/4", other standard threads (NPT3/4", PF3/4", M25x1.5)		
Terminal block	8 nos of terminal strips (6 for switches, 2 for solenoid valve power)		
Position indicator	Dome type 0°~90°	Others(3 way L-port, T-port)	
Mounting bracket Stainless steel acc. to VDI/VDE3845 SS3, N NAMUR, SS1, SS2 as standard		SS3, MT1 as option	
Switches(Sensors)	2-SPDT mechanical switch(Form C)	DPDT Switches Proximity sensors(P & F, Autonics) Magnetic sensors Position transmitter (output 0~1Kohm, 4-20mA DC)	

DIMENSION







www.autovalve.tw

Top view



Dome position indicator constructed from high impact resistance poly-carbonate material which offers instant visual recognition of valve or actautor position up to 50 meters distance.

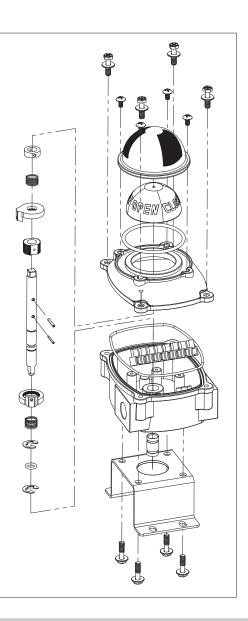


ITS 500 series

Speical stainless steel housing(316L or Duplex) provide very high protection performance against extremely corrosive environmental condition. Suitable for off-shore application. Other specification is same with ITS 300 series except for enclosure & coating.

CONSTRUCTION MATERIAL

Low cooper aluminum die-casting	
Epoxy-Polyester inside/outside(100 series)	
Chromated /Epoxy-Polyester(300 series)	
No painting on stainless steel housing	
NBR O-rings on each interface	
(Dome indicator,	
Lower/Upper housing, Shaft)	
Poly-carbonate	
Bronze	
AISI303 Stainless steel	
Stainless steel	
All in stainless steel	
Plate steel(ST series)	
Stainless steel(SS series and MT1)	



ITS Series position monitoring switches



Easy set cam

Easy and precise cam set without setting tool Red cam for close, Green cam for open





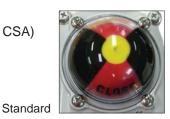
Standard Cam

Cam with Sensing Target



Terminal block and strips

Socket type terminal strip with screws Max. 2.5mm², 26A at 30°C(approved by UL, CSA)



Visual position indicator

Directly engaged with driving shaft to provide continuous position High strength, Chemical resistance and transparent poly-carbonate High visibility and reliability Red for close, Yellow for open(Red for close, Green for open as option)





L-port

T-port

Mechanical switches

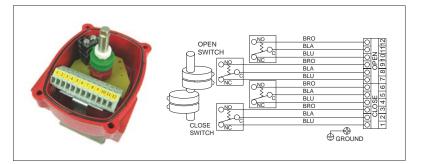
2-SPDT switches

Rating : 16A 1/2HP 125/250V AC, 0.6A 125V DC 0.3A 250V DC approved by UL, CSA



4-SPDT switches

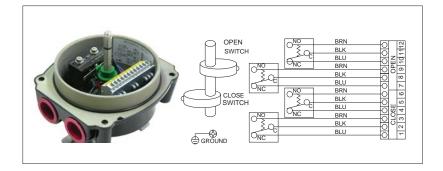
Rating : 5A 125 V AC 3A 125 V AC 0.6A 125 V DC approved by UL, CSA





Mechanical DPDT switches

Rating : 10A 125 or 250V AC 2A 480V AC 1/8HP 125V AC 0.25HP 250V AC 0.5A 125V DC 0.25A 250V DC approved by UL, CSA

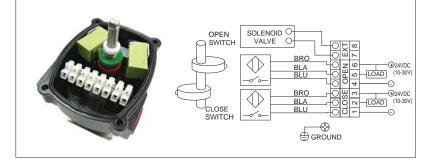


Proximity Sensors

Autonics sensors

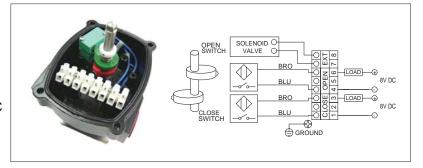
PS17-5DNU(NPN, PNP) Voltage rating : 10~30V DC Sensing distance : 5mm

Ambient temperature : -25°C ~+70°C

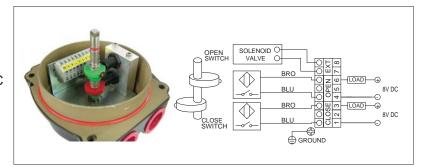


P & F sensors

NJ2-V3-N(Intrinsic safe, two wire) Voltage rating : 8V DC Sensing distance : 2mm Ambient temperature : -25°C ~+100°C



NJ4-12GK-SN Voltage rating : 8V DC Sensing distance : 4mm Ambient temperature : -50°C ~+100°C

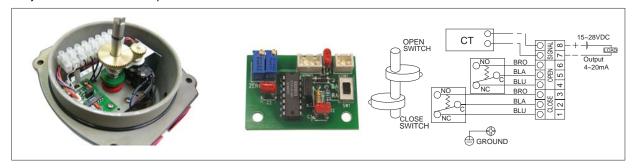


Explosion Proof position monitoring switches

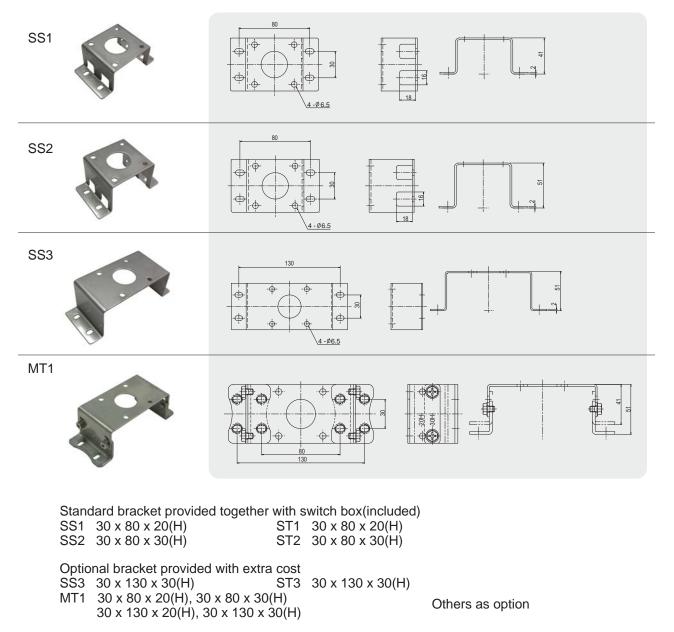


Position transmitter

Providing 4-20mA DC(or 0~1Kohm) output signal as feedback, 15~28VDC loop power(24V DC input power) Load impedance : 0~600 Ohm, Max output : 35mA DC Adjustment : Zero and span



Mounting bracket(Acc. to VDI/VDE3845)





Model number Legend

	1	0	0
1: Weath	ner proof	0: Mechanical switches	0 : 2 - SPDT
			1 : 3 - SPDT
3: Explos	sion proof		2 : 4 - SPDT
			3 : 2 - SPST
5: Special material housing			4 : 2 - DPDT
(316L, Duplex)			5 : 2 - SPDT + output(0~1Kohm)
			6 : 2 - SPDT + output(4-20mA)
		1 : Proximity sensors	0 : Autonics(PS17-5DNU)
			1 : P & F (NJ2-V3-N)
			S: Other type sensors

- Model numbers in Green are applicaboe to ITS100, 300 and 500 series

- Model numbers in Red are applicable to ITS300 and 500 series

