ITS Series

Position Monitoring Switch

First in Automation...



SUSIN

energy ahead...

Susin i-tork



Weather Proof
Position Monitoring Switches

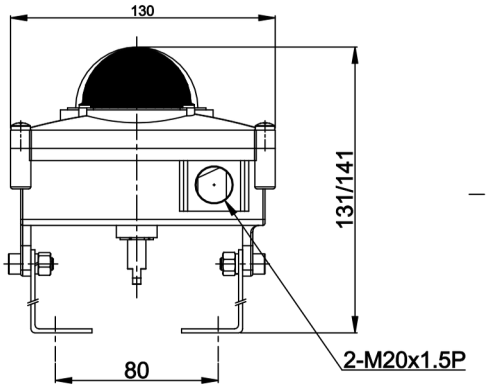
ITS series position monitoring switch boxes are primary rotary position indication device designed to integrate valve & NAMUR rotary pneumatic actuator with variety of mounting options, internal switches or sensors and configurations.

ITS 200 series

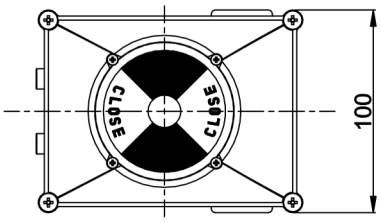
ITS 200 series are specially designed suitable for small size pneumatic actuator and valves to reduce installation space, but provides high performance by equipping variety of switches and sensors.

SPECIFICATION	STANDARD	OPTION
Enclosure	Weather proof IP67, O-ring sealed	
Outside coating	Epoxy-Polyester inside and outside against corrosion	Nylon Coating Special color Coating
Ambient temperature	-20°C~+80°C	
Cable entries	NPT1/2"	(M20x1.5,½"BSP,½"PT,½"PG13.5,½"PF)
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)
Switches(Sensors)	2-SPDT mechanical switch(Form C) as standard	Proximity sensors(P & F)

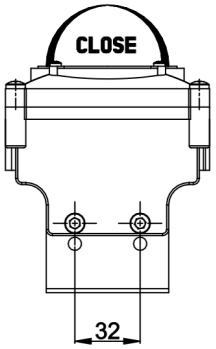
DIMENSION - ITS 200 Series



FRONT VIEW



TOP VIEW



SIDE VIEW

Explosion Proof
Position Monitoring Switches

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

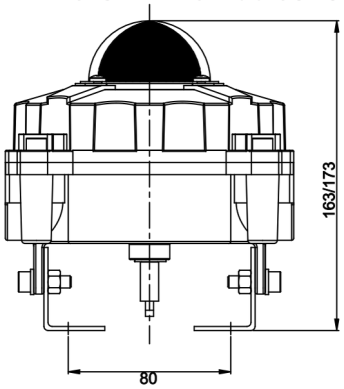


ITS 400 series

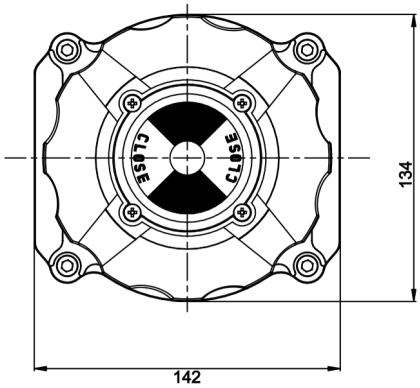
ITS 400 series are designed suitable for valve and actuators in hazardous area application, having compact but robust construction conforms to En50014 & 50018, also suitable in Zone 1 and 2 & Ingress Protection IP67 Standard aluminum housing provides reliable Explosion Proof performance.

SPECIFICATION	STANDARD	OPTION
Enclosure	Explosion proof Ex d IIC T6, IP67, O-ring sealed	IP 68
Outside coating	Epoxy-Polyester outside against corrosion	Nylon Coating Special color Coating
Ambient temperature	-20°C~+80°C	Higher(~100°C) and lower (-40°C~) temperature
Cable entries	2 - PF3/4, other standard threads	(M20x1.5,½"BSP,½"PT,½"PG13.5,½"PF)
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)
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)

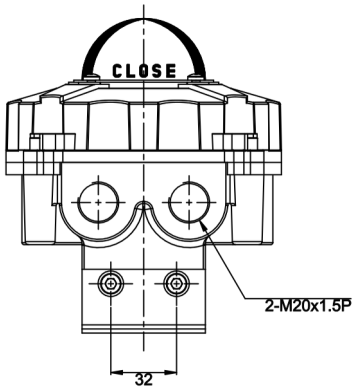
DIMENSION - ITS 400 Series



FRONT VIEW



TOP VIEW



SIDE VIEW



Special Material
Position Monitoring Switches

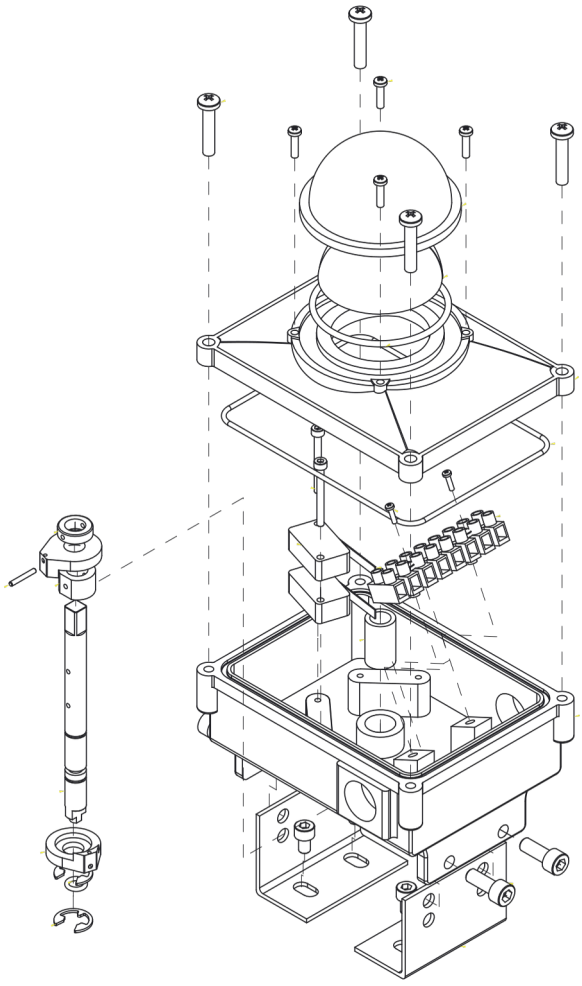
Dome position indicator constructed from high impact resistance poly-carbonate material which offers instant visual recognition of Valve or Actuator position up to 50 meters distance.

ITS 500 series

Special 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 400 series except for enclosure & coating.

CONSTRUCTION MATERIAL

Housing	Aluminum die-casting
Coating	Epoxy-Polyester inside/outside (200 series) Chromated /Epoxy-Polyester(400 series) No painting on stainless steel housing
Sealing	NBR O-rings on each interface (Dome indicator, Lower/Upper housing, Shaft)
Cams	Poly-carbonate
Bushings	Brass
Shaft	SS304 Stainless steel
Bolts	All in stainless steel
Mounting Bracket	Stainless steel (SSIN series)



ITS Series
Position Monitoring Switches



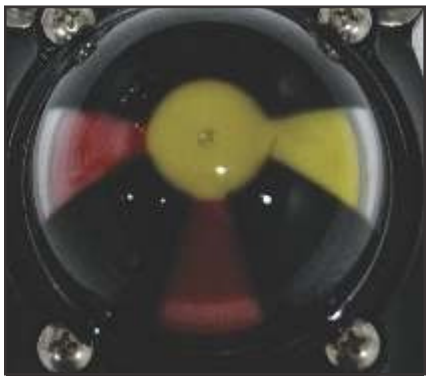


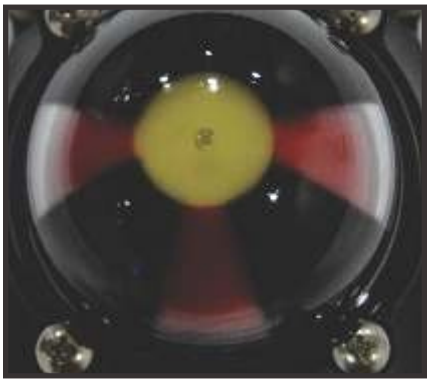


Easy set cam
Easy and precise cam set without setting tool
Red cam for close, Green cam for open

Terminal block and strips
Socket type terminal strip with screws
Max. 2.5mm2, 26A at 30oC
(approved by UL, CSA)







Standard **L - Port** **T - Port**

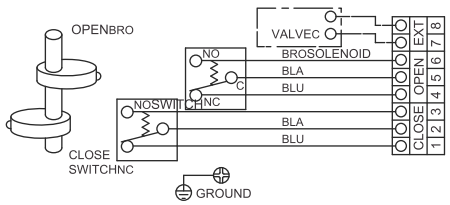
Visual Position Indicator

- 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).

Mechanical Switches

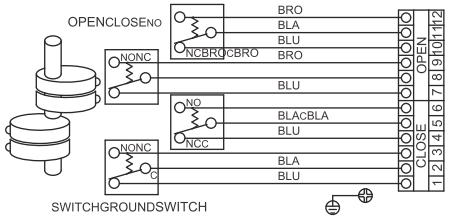
2-SPDT switches
Rating : 16A 1/2HP 125/250V AC,
0.6A 125V DC
0.3A 250V DC
approved by UL, CSA





4-SPDT switches
Rating : 5A 125 V AC LT130
0.6A 125 V DC to 16A 250V AC
approved by UL, CSA



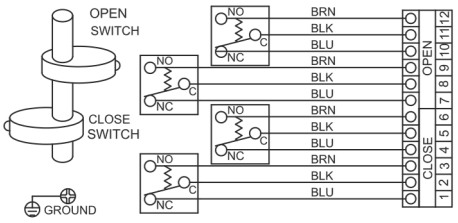


ITS Series
Position Monitoring Switches

Mechanical DPDT switches

Rating: 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



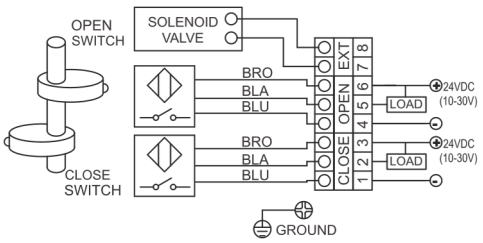


Proximity Sensors

Autonics Sensors

PSN17-5DNU-NPN, PNP
Voltage Rating : 10~30V DC
Sensing Distance : 5mm
Ambient Temperature : -25°C ~+70°C

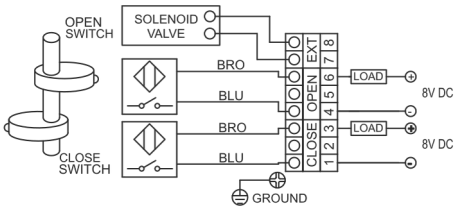




P & F Sensors

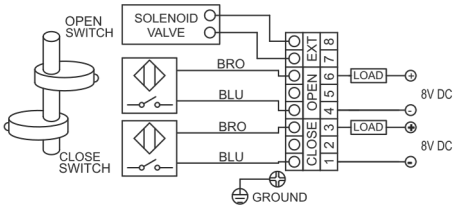
NJ2-V3-N(Intrinsic safe, Two wire)
Voltage Rating : 8V DC
Sensing Distance : 2mm
Ambient Temperature : -25°C ~+100° C





NJ4-12GK-SN
Voltage Rating : 8V DC
Sensing Distance : 4mm
Ambient Temperature : -50°C ~+100°C



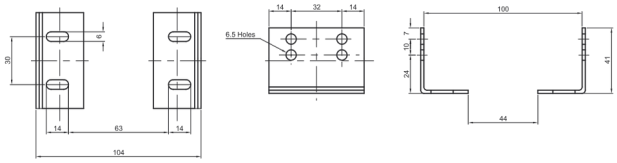


ITS Series
Position Monitoring Switches

Mounting Bracket(Acc. to VDI/VDE3845)

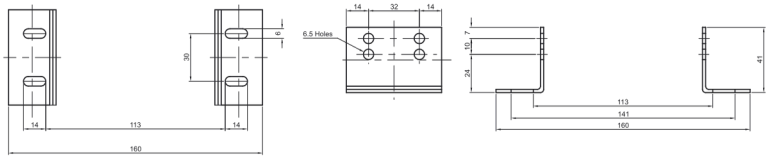
SSIN1





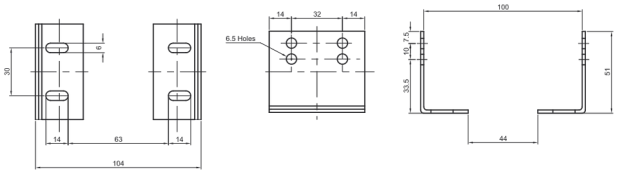
SSIN2





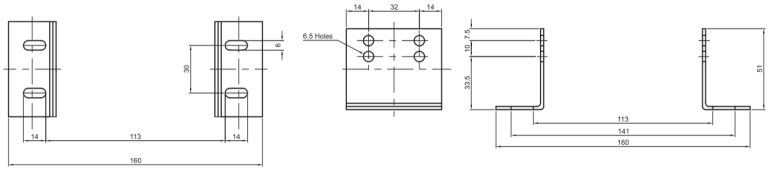
SSIN3





SSIN4





Standard bracket provided together with switch box(included)

SSIN1	30 x 80 x 20(H)	ST1	30 x 80 x 20(H)
SSIN2	30 x 80 x 30(H)	ST2	30 x 80 x 30(H)

Optional bracket provided with extra cost

SSIN3	30 x 130 x 30(H)	ST1	30 x 80 x 20(H)
SSIN4	30 x 80 x 20(H), 30 x 80 x 30(H)	ST1	30 x 80 x 20(H)
	30 x 130 x 20(H), 30 x 130 x 30(H)		

Others as option

ITS Series
Position Monitoring Switches

Model Number Legend

ITS 2	0	0	A
2: Weather proof	0: mechanical switches	0 : 2 - SPDT	A-1/2" NPT Cable Entry
		1 : 3 - SPDT	B-M20 x 1.5 Cable Entry
		2 : 4 - SPDT	C-1/2" PT Cable Entry
4: Explosion proof		3 : 2 - SPST	D-1/2" PF Cable Entry
		4 : 2 - DPDT	E-PG 13.5 Cable Entry
5: Special material housing (316L, Duplex)		5 : 2 - SPDT + output(0~1Kohm)	F-3/4" PF Cable Entry
		6 : 8 - SPDT + output(4-20mA)	G-3/4" NPT Cable Entry
	1: proximity sensors	0 : Autonics (PSN17-5DNU)	H-M25 x 1.5 Cable Entry
		1 : P & F (NJ2-V3-N)	
		S: Other type sensors	

Model numbers in Green are applicable to ITS200, 400 and 500 series. Model numbers in Red are applicable to ITS400 and 500 series

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