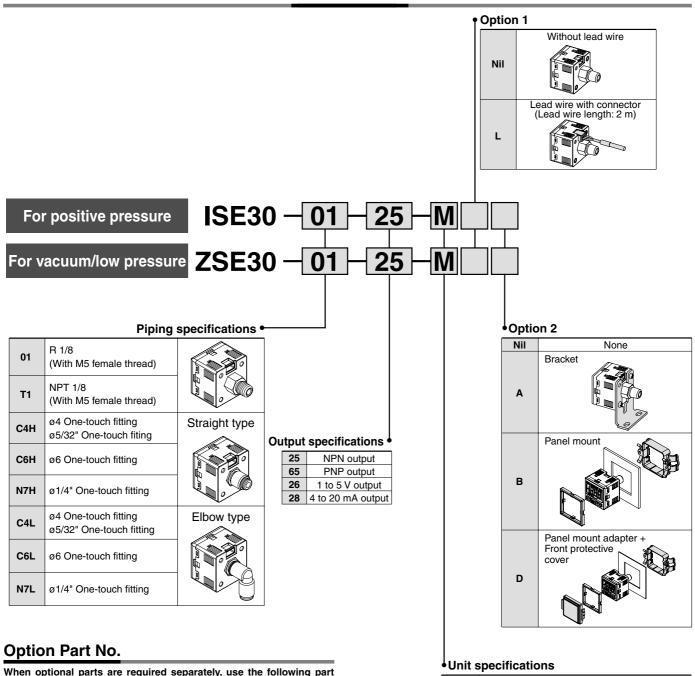


High Precision, 2-color Display Digital Pressure Switch Series ZSE30/ISE30

How to Order



When optional parts are required separately, use the following part numbers to place an order.

Option	Part no.	Note		
Lead wire with connector	ZS-27-A	Lead wire length: 2 m		
Bracket	ZS-27-B	With mounting screws (M3 x 5L: 2 pcs.)		
Panel mount adapter	ZS-27-C	With M3 x 8L (2 pcs.)		
Panel mount adater + Front protective cover	ZS-27-D	With M3 x 8L (2 pcs.)		

Nil	With unit switching function				
М	Fixed SI unit (International System of Units) Note)				

Note) Fixed unit:

For vacuum/Low pressure: kPA For positive pressure: MPa

High Precision, 2-color Display Digital Pressure Switch Series ZSE30/ISE30

Specifications



			ZSE30 (Vacuum/Low pressure)	ISE30 (Positive pressure)			
Rated pressure range			-100.0 to 100.0 kPa	0.000 to 1.000 MPa			
Regulating pressure range			-101.0 to 101.0 kPa	-0.100 to 1.000 MPa			
Proof pressure			500 kPa	1.5 MPa			
Min. re	egula	ting unit	0.2 kPa	0.001 MPa			
Fluid			Air, Inert gas, Non-flammable gas				
Power supply voltage		ply voltage	12 to 24 VDC, Ripple (p-p) 10% or less (With power supply polarity protection)				
Current consumption			45 mA or less (at no load)				
Switch	h out	put Note 1)	NPN or PNP open collector output: 1 output				
		Max. load current	80 mA				
Max. applied voltage			30 V (With NPN output)				
Residual voltage		Residual voltage	1 V or less (With load current of 80 mA)				
		Response time	2.5 ms or less (Response time selections with anti-chattering function: 20, 160, 640, 1280 ms				
Short circuit protection		Short circuit protection	Yes				
Repea	atabil	ity	±0.2% F.S. ±2 digit or less	±0.2% F.S. ±1 digit or less			
Voltage output Note 2)			Output voltage: 1 to 5 V ±2.5% F.S. or less (With rated pressure range) Linearity: ±1% F.S. or less, Output impedance: Approx. 1 kΩ				
Analog output		Note 3) Current output	Output current: 4 to 20 mA $\pm 2.5\%$ F.S. or less (With rated press) Linearity: $\pm 1\%$ F.S. or less Maximum load impedance: 300 Ω with power supply voltage 600 Ω with power supply voltage Minimum load impedance: 50 Ω				
Hyste	resis	Hysteresis mode Window comparator mode	Adjustable (can be set from 0)				
Display		,	3 1/2 digit, 7-segment indicator, 2-color display (Red and green) Sampling cycle: 5 times/s				
Display accuracy		curacy		(
Indica	ator li	ght	Light up when output is ON (Green)				
Temp	eratu	re characteristics	±2% F.S. or less (based on 25°C)				
	Encl	osure	IP40				
tal	Opera	ating temperature range	Operating: 0 to 50°C, Stored: -10 to 60°C (No freezing or condensation)				
e	Operating humidity range		Operating and stored: 35 to 85% RH (No condensation)				
anc	Withstand voltage		1000 VAC for 1 min. between live parts and enclosure				
virc	Insul	ation resistance	50 MΩ or more between live parts and enclosure (at 500 VDC)				
Environmental resistance	Vibration resistance		10 to 150 Hz, 1.5 mm or 20 m/s ² amplitude in X, Y, Z directions for 2 hours each				
	Impa	act resistance	100 m/s ² in X, Y, Z directions 3 times each				
Stand	lard		Compliant with CE Markin				
			cted, analog output is not available.				

Note 1) When switch output is selected, analog output is not available.

Note 2) When voltage output is selected, a simultaneous selection of switch output and current output is not available.

Note 3) When current output is selected, a simultaneous selection of switch output and voltage output is not available.

Piping Specifications

Part		01	T1	C4H	C6H	N7H	C4L	C6L	N7L
		R 1/8 M5 x 0.8	NPT 1/8 M5 x 0.8	_	_	_	_	_	_
Port size	One-touch fitting Straight type	_	_	ø4 mm ø5/32 inch	ø6 mm	ø1/4 inch	_	_	_
	One-touch fitting Elbow type	_	_	_	_	_	ø4 mm ø5/32 inch	ø6 mm	ø1/4 inch
Wetted part material		Sensor pressure receiving area: Silicon, Piping port: C3602 (Electroless nickel plated), O-ring: HNBR							
				O-ring: NBR			O-ring: NBR, fitting: PBT		
Weight	With lead wire with connector (2 m)	81	g	76 g			78 g		
	Without lead wire with connector	43 g		38 g			40 g		

16-2-5

PSE

ZSE3

PS

ZSE₂

ZSP

ISA2

IS□

ZSM

PF2□

 $\mathsf{IF}\square$

Data