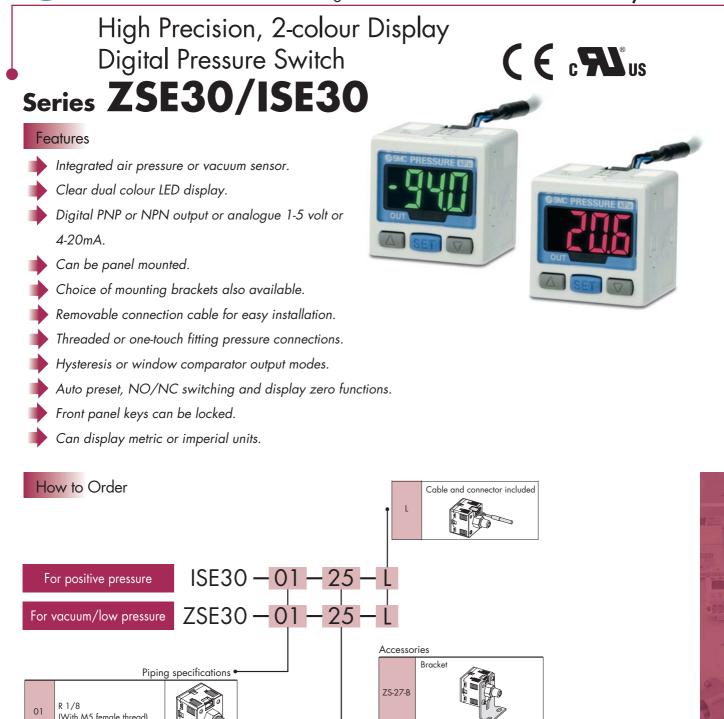
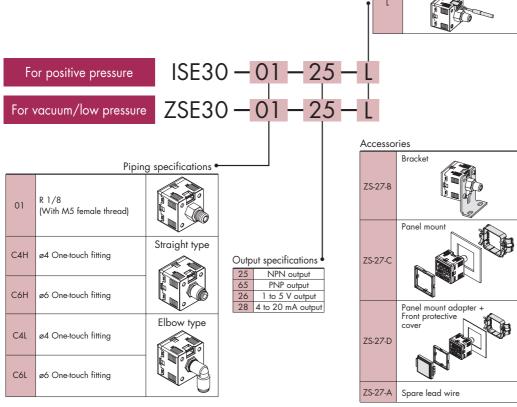


High Precision, 2-colour Display Digital Pressure Switch

# 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			
Regul	ating	pressure range	–101.0 to 101.0 kPa	–0.100 to 1.000 MPa			
Proof	press	ure	500 kPa	1.5 MPa			
Min.	regula	ating unit	0.2 kPa	0.001 MPa			
Fluid			Air, Inert gas, Non-flammable gas				
Power supply 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 output 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		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	Yes				
Repeatability			$\pm 0.2\%$ F.S. $\pm 2$ digit or less	±0.2% F.S. ±1 digit or less			
Analog output		Note 2) Voltage output	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				
		Note 3} Current output	Output current: 4 to 20 mA ±2.5% F.S. or less (With rated pressure range) Linearity: ±1% F.S. or less Maximum load impedance: 300 Ω with power supply voltage of 12 V; 600 Ω with power supply voltage of 24 V 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	±2% F.S. ±2 digit (at 25°C ambient temperature)	±2% F.S. ±1 digit (at 25°C ambient temperature)			
Indicator light			Light up when output is ON (Green)				
Temp	eratur	e characteristics	±2% F.S. or less (based on 25°C)				
Enclosure			IP40				
_	Oper	ating temperature range	Operating: 0 to 50°C, Stored: –10 to 60°C (No freezing or condensation)				
Environmental resistance	Оре	rating humidity range					
	With	istand voltage	1000 VAC for 1 min. between live parts and enclosure				
	Insul	ation resistance	50 M $\Omega$ or more between live parts and enclosure (at 500 VDC)				
En	Vibro	ation resistance	10 to 150 Hz, 1.5 mm or 20 m/s <sup>2</sup> amplitude in X, Y, Z directions for 2 hours each				
	Impo	ict resistance	100 m/s <sup>2</sup> in X, Y, Z directions 3 times each				
Stand	ard		Compliant with CE Marking and UL (CSA) standards				

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

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

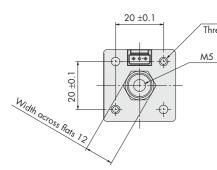
Note 3) When current output is selected, a simultaneous selection of switch output and voltage output is not available.

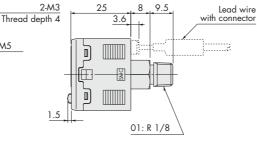
### **Piping Specifications**

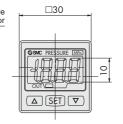
Part		01	C4H		C6H	C4L	C6L		
		R 1/8 M5		_	_				
Port size	One-touch fitting Straight type	_	ø4 mm		ø6 mm	_	_		
	One-touch fitting Elbow type	ng		_		ø4 mm	ø6 mm		
Wetted part material		Sensor pressure receiving area: Silicon, Piping port: C3602 (Electroless nickel plated), O-ring: HNBR							
				O-ring: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

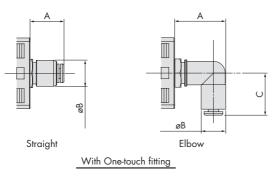


**Dimensions** 



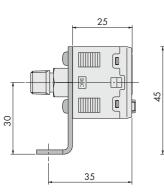


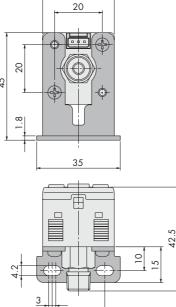




					(mm)
One-touch fitting	Straight		Elbow		
size	A	В	Α	В	С
ø4			20	10.4	18
ø6	14.4	11.2	22.4	12.8	20

With bracket





22

30

Sensors, Switches

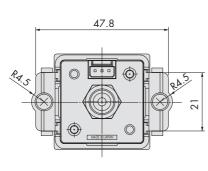


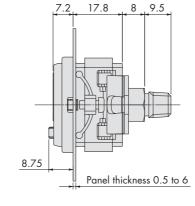


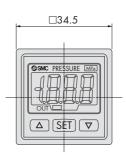


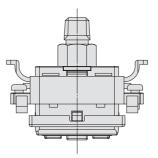
### Dimensions

Panel mount



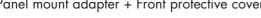


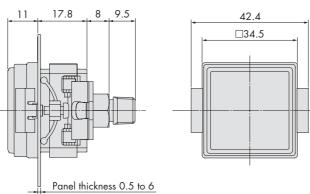




Panel mount adapter + Front protective cover







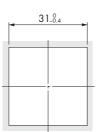


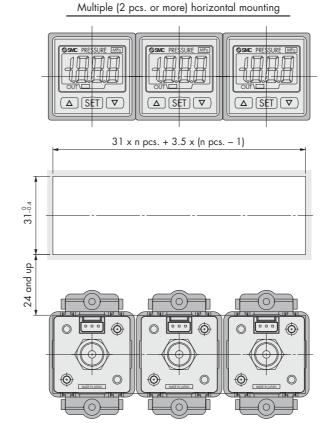
High Precision, 2-colour Display Digital Pressure Switch Series ZSE30/ISE30

#### Dimensions

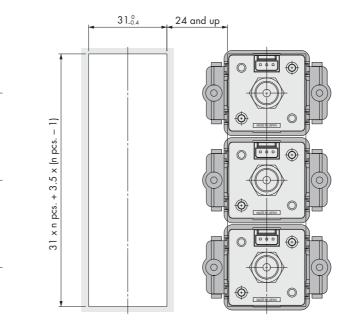
Panel fitting dimension

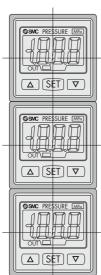
1-pc. mounting





#### Multiple (2 pcs. or more) vertical mounting







Sensors, Switches