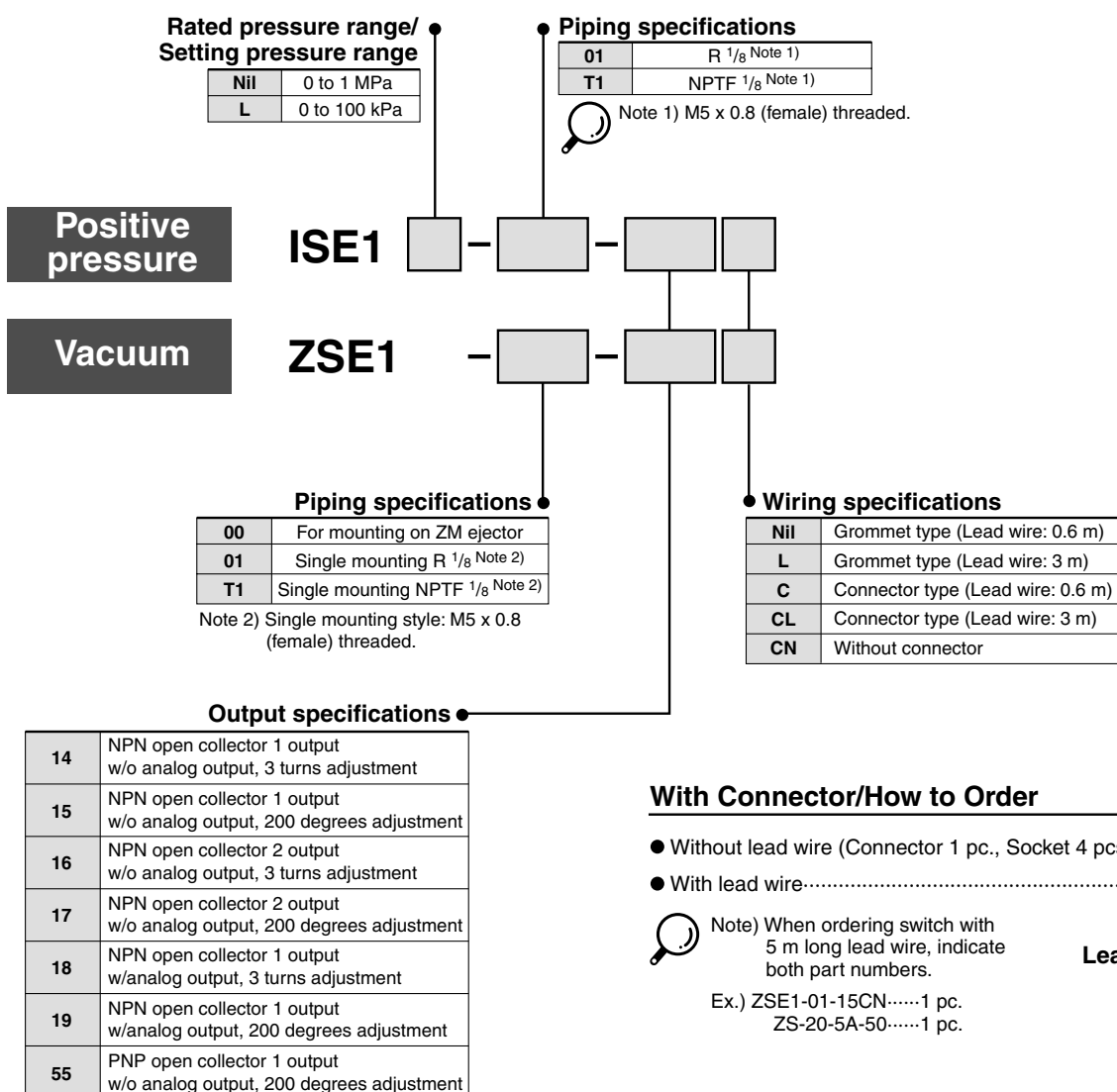


Compact Pressure Switch

Series ZSE1/ISE1

How to Order



Specifications

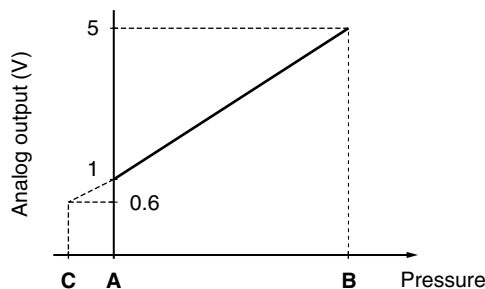
Model		ZSE1	ISE1L	ISE1
		For vacuum	For low pressure	For high pressure
Rated pressure range/Set pressure range		0 to -101 kPa	0 to 100 kPa	0 to 1 MPa
Expanded analog output range		10 to 0 kPa	-10 to 0 kPa	-0.1 to 0 MPa
Proof pressure		500 kPa		1.5 MPa
Fluid		Air/Non-corrosive, non-flammable gas		
Power supply voltage		12 to 24 VDC $\pm 10\%$, Ripple (P-P) 10% or less (With power supply polarity protection)		
Current consumption		1 output: 17 mA or less at 24 VDC, 2 output: 25 mA or less at 24 VDC		
Response time		5 ms or less		
Repeatability		$\pm 1\%$ F.S. or less		
Resistance	Enclosure	IP40		
	Operating temperature range	Operating: 0 to 60°C, Stored: -10 to 60°C (With no condensation and no freezing)		
	Operating humidity range	Operating/Stored: 35 to 85%RH (With no condensation)		
	Vibration resistance	10 to 500 Hz at whichever is smaller of 1.5 mm amplitude or 98 m/s ² acceleration, in X, Y, Z directions for 2 hrs. each (De-energized)		
	Impact resistance	980 m/s ² in X, Y, Z directions, 3 times each (De-energized)		
Temperature characteristics (Based on 25°C)		$\pm 3\%$ F.S. or less		
Withstand voltage		1000 VAC for 1 min. (between live parts and case)		
Insulation resistance		50 M Ω or more (at 500 VDC by megameter) between live parts and case		
Port size		01: R 8, M5 x 0.8 T1: NPTF 1/8, M5 x 0.8 00: ZM ejector mount type		
Mass		40 g (Including 0.6 m-Long lead wire)		
Lead wire	Grommet type	Oil-resistant vinyl cabtire code 3 cores, $\phi 3.4$, Cross section: 0.2 mm ² , Insulator O.D.: 1.1 mm		
	Connector type	Heat-resistant vinyl electric wire, 4-wire, Cross section: 0.3 mm ² , Insulator O.D.: 1.55 mm		
Standard		Compliant with CE marking		

Output Specifications

Model	-14	-15	-16	-17	-18	-19	-55
Switch output	NPN open collector 30V, 80 mA or less						PNP open collector 80 mA or less
Residual voltage	1V or less (With load current of 80 mA)						
Number of outputs	1		2		1		
Hysteresis	1 to 10% of set prss. (Variable)		3% F.S. or less (Fixed)		1 to 10% of set prss. (Variable)		1 to 10% of set prss. (Adjustable)
Indicator light	ON: when output is ON (Red)		ON: when output is ON (OUT1: Red, OUT2: Green)		ON: when output is ON (Red)		
Trimmer adjustment	3 turns	200 degrees	3 turns	200 degrees	3 turns	200 degrees	
Analog output	None				1 to 5 V $\pm 5\%$ F.S. or less (At rated pressure range) 0.6 to 1 V $\pm 7\%$ F.S. or less (At set pressure range) Output impedance: Approx. 1 k Ω		None

Analog output

1 to 5 VDC



Rated pressure range	A	B	C
For vacuum 0 to -101 kPa	0	-101 kPa	10.1 kPa
For low pressure 0 to 100 kPa	0	100 kPa	-10 kPa
For positive pressure 0 to 1 kPa	0	1 MPa	-0.1 MPa