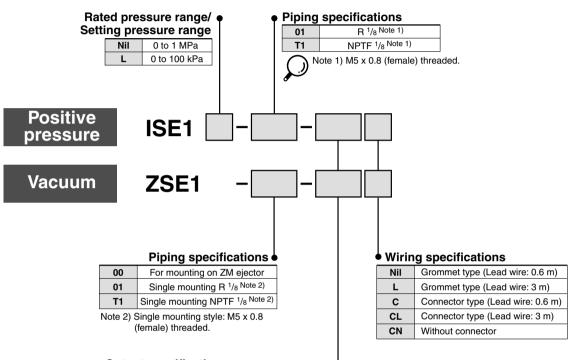
# **Compact Pressure Switch** Series ZSE1/ISE1

### **How to Order**



Output specifications

	Output opcomountions
14	NPN open collector 1 output w/o analog output, 3 turns adjustment
15	NPN open collector 1 output w/o analog output, 200 degrees adjustment
16	NPN open collector 2 output w/o analog output, 3 turns adjustment
17	NPN open collector 2 output w/o analog output, 200 degrees adjustment
18	NPN open collector 1 output w/analog output, 3 turns adjustment
19	NPN open collector 1 output w/analog output, 200 degrees adjustment
55	PNP open collector 1 output w/o analog output, 200 degrees adjustment

#### With Connector/How to Order

● Without lead wire (Connector 1 pc., Socket 4 pcs.) ... ZS-20-A

● With lead wire------ZS-20-5A-

Note) When ordering switch with 5 m long lead wire, indicate both part numbers.

> Ex.) ZSE1-01-15CN-----1 pc. ZS-20-5A-50----1 pc.

Lead	wire	I	ength •
	Nil		0.6 m

NII	U.6 m
30	3 m
50	5 m

# Compact Pressure Switch Series ZSE1/ISE1

## **Specifications**

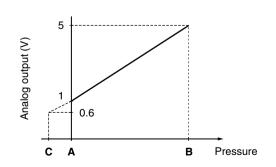
Model		ZSE1	ISE1L	ISE1			
		For vacuum	For low pressure	For high pressure			
Rated pressure range/Set pressure range		0 to -101 kPa	0 to 100 kPa	0 to 1 MPa			
Expanded analog output range			10 to 0 kPa	-10 to 0 kPa	-0.1 to 0 MPa		
Proof pressure			500	1.5 MPa			
Fluid			Air	/Non-corrosive, non-flammable g	as		
Power supply	/ voltage	)	12 to 24 VDC ±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			±1% F.S. or less				
Enclosure			IP40				
Operating temperature range		Operating: 0 to 60°C, Stored: -10 to 60°C (With no condensation and no freezing)					
Resistance 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/s² acceleration,					
	Vibrati	on registance	in X, Y, Z directions for 2 hrs. each (De-energized)				
Impact resistance			980 m/s <sup>2</sup> in X, Y, Z directions, 3 times each (De-energized)				
Temperature of	characte	eristics (Based on 25°C)	±3% F.S. or less				
Withstand vo	Itage		1000 VAC for 1 min. (between live parts and case)				
Insulation resistance			50 M $\Omega$ 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, ø3.4, Cross section: 0.2 mm², Insulator O.D.: 1.1 mm				
Leau Wile	Connector type		Heat-resistant vinyl electric wire, 4-wire, Cross section: 0.3 mm², 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 press. (Adjustable)
Indicator light	ON: when output is ON		ON: when output is ON		ON: when output is ON		
indicator light	(Red) (OUT1: Red, OUT2: Green)		(Red)				
Trimmer adjustment	3 turns	200 degrees	3 turns	200 degrees	3 turns	200 de	egrees
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 $\Omega$		None	

### **Analog output**

1 to 5 VDC



Rated pressure range	Α	В	С
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

ZSP

PS

ISA

PSE

IS

ISG

ZSM