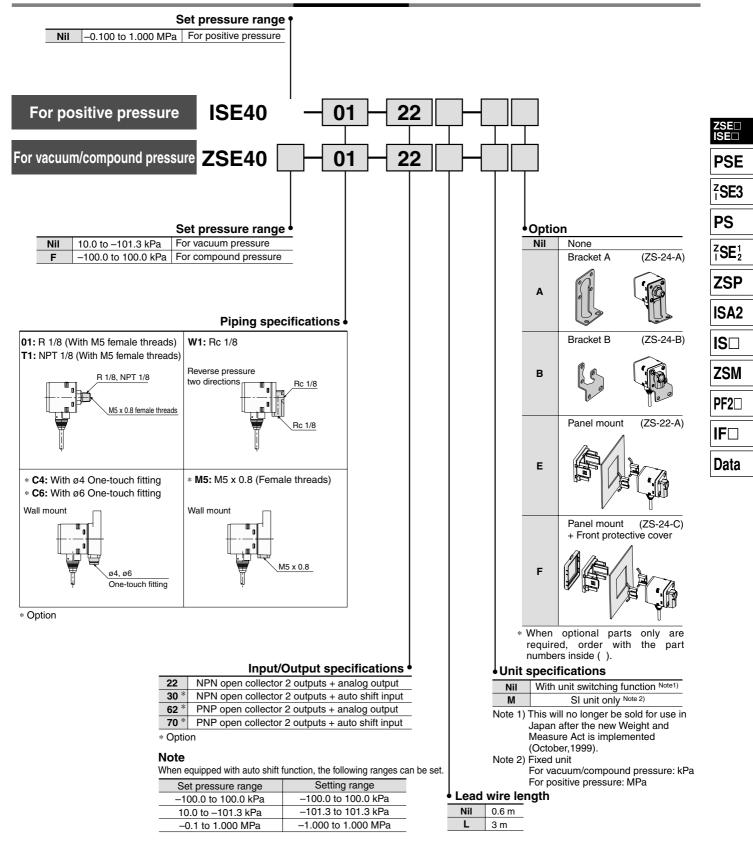
High Precision, Digital Pressure Switch Series ZSE40/ISE40

How to Order



Series ZSE40/ISE40

Specifications

		ZSE40F (Compound pressure)	ZSE40 (Vacuum pressure)	ISE40 (Positive pressure)
Rated pressure range		-100.0 to 100.0 kPa	0.0 to -101.3 kPa	0.000 to 1.000 MPa
Operating pressure range/Set pressure range		-100.0 to 100.0 kPa	10.0 to -101.3 kPa	-0.100 to 1.000 MPa
Withstand pressure		500 kPa		1.5 MPa
•	kPa	0.1		_
Set pressure resolution Note	MPa	_		0.001
	kgf/cm ²	0.001		0.01
	bar	0.001		0.01
	psi	0.02	0.01	0.1
	mmHg	1		_
	InHg	0.1		_
Applicable fluid		Air, Non-corrosive/Non-flammable gas		
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less		
Current consumption		55 mA or less		
		NPN or PNP 2 outputs Max. load current : 80 mA		
Switch output		Max. applied voltage: 30 VDC (With NPN output) Residual voltage : 1 V or less (With 80 mA load current)		
Repeatability		±0.2% F.S. ±1digit or less		
Hysteresis mode Window comparator mode		Variable		
Response time (With anti-chattering function)				
Output short circuit protection		Yes		
Display		3 1/2 digit LED display (Sampling cycle: 5 times/sec.)		
Display accuracy		±2% F.S. ±1 digit or less (at ambient temperature of 25 ±3°C)		
Indicator light		Green LED (OUT1: Lights when ON), Red LED (OUT2: Lights when ON)		
Analog output Note 2)		Output voltage: 1 to 5 V ±5% F.S. or less (in rated pressure range) Linearity: ±1% F.S. or less Output impedance: Approx. 1 kΩ	ated pressure range) % F.S. or less 0 utput voltage: 1 to 5 V ±2.5% F.S. or less 0 utput voltage: 1 to 5 V ±2.5% F.S. or less 0 utput impedance: Approx 1 kO	
Auto shift input Note 3)		No-voltage input (Reed or solid state), input 5 ms or more		
· ·	Enclosure	IP65		
Environmental resistance	Ambient temperature range	e Operating: 0 to 50°C, Stored: -10 to 60°C (No condensation or freezing)		
	Ambient humidity range			
	Withstand voltage	1000 VAC for 1 min. between lead wires and body		
	Insulation resistance	50 M Ω or more (at 500 VDC) between lead wires and body		
	Vibration resistance	10 to 500 Hz at the smaller of amplitude 1.5 mm or acceleration 98 m/s ² (10 G) in X, Y, Z directions for 2 hrs. each (De-energized)		
	Impact resistance	980 m/s ² (100 G) in X, Y, Z directions 3 times each (De-energized)		
Temperature characteristics		In a temperature range of 0 to 50°C, ±2% F.S. or less of pressure measured at 25°C		
•		01: R 1/8, M5 x 0.8, T1: NPT1/8, M5 x 0.8, W1: Rc 1/8		
Port size		C4: With ø4 One-touch fitting, C6: With ø6 One-touch fitting, M5: M5 female threads 5-wire oil resistant heavy-duty cord (0.15 mm ²)		
Weight		01/T1 types approx. 60 g, W1 type approx. 80 g, C4/C6/M5 types approx. 92 g (Each including 0.6 m lead wires)		
<u> </u>			0	2 y (Lach including 0.6 m lead wires)
Note 1) Equipped with unit switching fu (Types without the unit switchin Note 2) For ZSE40 (F)/ISE40-□-22 Note 3) For ZSE40 (F)/ISE40-□-3%		inction ig function use SI units (kPa or MPa) only	Set pressure range	function, the following ranges can be Setting range
		ure) with "psi" indication, this is 0.03 to 0.	10.0 to -101.3 kPa	-100.0 to 100.0 kPa -101.3 to 101.3 kPa 1.000 to 1.000 MPa
	E40E (compound press	ure) with "nei" indication zero clear is in t	– 0.1 to 1.000 MPa	-1.000 to 1.000 MPa

Note 5) For ZSE40F (compound pressure) with "psi" indication, zero clear is in the range of ±0.01 psi.

Example of Internal Circuit and Wiring

