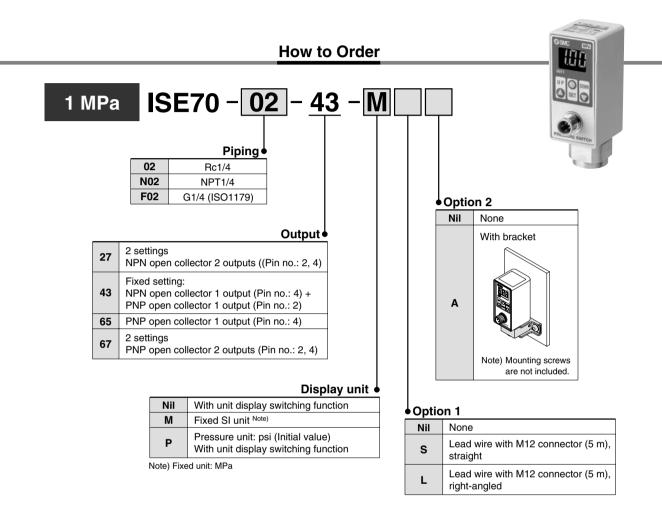
## 2-Color Display Digital Pressure Switch For Air

## Series ISE70



## **Optional Part No.**

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

Option	Part no.	Note
Bracket	ZS-31-A	Bracket B and the bracket assembly make up one set.  Note) Mounting screws are not included.  Bracket assembly
Lead wire with M12 connector, straight	ZS-31-B	Lead wire length: 5 m
Lead wire with M12 connector, right-angled	ZS-31-C	Lead wire length: 5 m



## **Specifications**

Model		ISE70		
Rated pressure range		0 to 1 MPa		
Set pressure range		-0.1 to 1 MPa		
Withstand pressure		1.5 MPa		
Set pressure resolution		0.01 MPa		
Applicable fluid		Air, Non-corrosive gas, Non-flammable gas		
Power supply voltage		12 to 24 VDC±10%, Ripple (p-p) 10% or less (with power supply polarity protection)		
Current consumption		55 mA or less (at no load)		
Switch output		Output -27: 2 settings; NPN open collector 2 outputs (Pin no.: 2, 4)  Output -43: Fixed setting; NPN open collector 1 output (Pin no.: 4) + PNP open collector 1 output (Pin no.: 2) Note 1)  Output -65: PNP open collector 1 output (Pin no.: 4)  Output -67: 2 settings; PNP open collector 2 outputs (Pin no.: 2, 4)		
	Max. load current	80 mA		
	Max. applied voltage	30 V (at NPN output)		
	Residual voltage	1 V or less (with load current of 80 mA)		
	Response time	2.5 ms (with anti-chattering function: 20 ms, 160 ms, 640 ms, 1000 ms, 2000 ms)		
	Short circuit protection	With short circuit protection		
Repeatabilit	ty	±0.5%F.S. or less		
Hysteresis	Hysteresis mode Window comparator mode	Variable (0 or above)		
Display		3-digit, 7-segment indicator, 2-color display (Red/Green) can be interlocked with the switch output, Sampling cycle: 5 times/1 s		
Display accuracy		2%F.S.±1 digit or less (at 25°C±3°C)		
Indication light		OUT1: Light up when output is turned ON. (Green)		
		OUT2: Light up when output is turned ON. (Red: for output -27, -67)		
Functions		Anti-chattering function, Unit display switching function, Zero-out function, Key lock function		
	Enclosure	IP67 Note 2)		
	Fluid temperature range	0 to 50°C (with no freezing or condensation)		
	Operating temperature range	Operating: 0 to 50°C, Stored: -10 to 60°C (with no freezing or condensation)		
Environ- mental	Operating humidity range	Operating and stored: 35 to 85%RH (with no condensation)		
resistance	Withstand voltage	1000 VAC for 1 min. between live parts and case		
	Insulation resistance	50 $M\Omega$ or more between live parts and case (at 500 VDC Mega)		
	Vibration resistance	10 to 500 Hz, 1.5 mm or 98 m/s <sup>2</sup> amplitude in X, Y, Z directions for 2 hours each (De-energized)		
Impact resistance		980 m/s <sup>2</sup> in X, Y, Z directions 3 times each (De-energized)		
Temperature characteristics (Based on 25°C: within operating temperature range)		±2%F.S. or less		
Standards		CE Marking, UL/CSA (UL508) compliance		
Wetted parts material		Fitting: C3604 (electroless nickel plated), Sensor port: PBT, Sensor pressure receiving area: Silicon, O-ring: NBR		
Port size		02: Rc1/4, N02: NPT1/4, F02: G1/4 (ISO1179) Note 3)		
Lead wire		Oilproof cable with M12 4-pin pre-wired connector, 4 cores, ø4, 5 m, Conductor O.D.: 0.72 mm, Insulator O.D.: 1.14 mm		
Mass (Weight)		190 g (excluding the lead wire with M12 4-pin pre-wired connector)		
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Note 1) The NPN and PNP outputs function for a single set point.

Note 2) An FKM gasket is used for the product case seal. Refer to the back of page 727 for details.

Note 3) G1/4: Applicable to ISO1179-1

See the operating manual for information on how to set and on handling precautions. (Refer to SMC website.)

ZSP

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ISA

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