

2-Color Display Digital Pressure Switch For General Fluids

Series *ISE75/75H*



How to Order

10 MPa

ISE75 - **02** - **43** - **M**

15 MPa

ISE75H - **02** - **43** - **M**

Piping

02	Rc1/4
N02	NPT1/4
F02	G1/4 (ISO1179)

Output

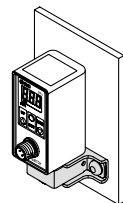
27	2 settings NPN open collector 2 outputs (Pin no.: 2, 4)
43	Fixed setting: NPN open collector 1 output (Pin no.: 4) + PNP open collector 1 output (Pin no.: 2)
65	PNP open collector 1 output (Pin no.: 4)
67	2 settings PNP open collector 2 outputs (Pin no.: 2, 4)

Display unit

Nil	With unit display switching function
M	Fixed SI unit <small>Note)</small>
P	Pressure unit: psi (Initial value) With unit display switching function

Note) Fixed unit: MPa

Option 2

Nil	None
A	With bracket 

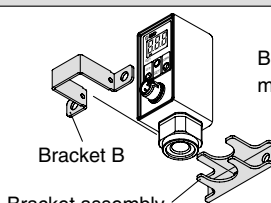
Option 1

Nil	None
S	Lead wire with M12 connector (5 m), straight
L	Lead wire with M12 connector (5 m), right-angled



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	 <p>Bracket B and the bracket assembly make up one set.</p>
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

2-Color Display Digital Pressure Switch *Series ISE75/75H*

Specifications

Model		ISE75	ISE75H
Rated pressure range		0 to 10 MPa	0 to 15 MPa
Set pressure range		0.4 to 10 MPa	0.5 to 15 MPa
Withstand pressure		30 MPa	45 MPa
Set pressure resolution		0.1 MPa	
Applicable fluid		Fluid or gas that will not corrode stainless steel 304, 430 and 630	
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
Repeatability		±0.5%F.S. or less	
Hysteresis	Hysteresis mode	Variable (0 or above)	
	Window comparator mode		
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	
Environmental resistance	Enclosure	IP67 ^{Note 2)}	
	Fluid temperature range	-5 to 80°C (with no freezing or condensation)	
	Operating temperature range	Operating: -5 to 50°C, Stored: -10 to 60°C (with no freezing or condensation)	
	Operating humidity range	Operating and stored: 35 to 85%RH (with no condensation)	
	Withstand voltage	250 VAC for 1 min. between live parts and case	
	Insulation resistance	50 MΩ or more between live parts and case (at 50 VDC Mega)	
	Vibration resistance	10 to 500 Hz, 1.5 mm or 98 m/s ² amplitude in X, Y, Z directions for 2 hours 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: within operating temperature range)		±3%F.S. or less	
Standards		CE Marking, UL/CSA (UL508) compliance	
Wetted parts material		Pressure receiving area: Stainless steel 630, Fitting: Stainless steel 304 (port size Rc1/4) Pressure receiving area: Stainless steel 630, Fitting: Stainless steel 430 (port size NPT1/4, G1/4)	
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)		225 g (port size Rc1/4), 210 g (port size NPT1/4, G1/4) (excluding the lead wire with M12 4-pin pre-wired connector)	

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.)