

## 2-colour Display Digital Pressure Switch/For Air

# Series ISE70

### Features

- Integrated pressure switch for air
- Robust metal case construction
- IP67 waterproof design
- Removable cable
- Red / Green dual colour LED display
- NPN and PNP outputs available
- Can be operated in hysteresis or window comparison mode
- Mounting bracket available

#### How to Order





## Connector Pin Assignments

#### Output -43

1	Brown	DC (+)	
2	White	OUT1 (PNP)	
3	Blue	DC (-)	
4	Black	OUT1 (NPN)	

#### Output -65

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	1	Brown	DC (+)	
	2	White	NC	
	3	Blue	DC (-)	
ſ	4	DII.	OLIT1 (DNID)	

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	Piping • G1/4 (ISO1179)				
	Output	,	Option	n 1	
43	Fixed setting: NPN open collector 1 output (Pin no. 4) +		S	Lead wire with M12 connector (5m), straight	
	PNP open collector 1 output (Pin no. 2)		- 1	Lead wire with M12 connector (5m),	
65 PNP open collector 1 output (Pin no. 4)		L		right-angled	

#### Accessories

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

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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 (spare)	ZS-31-B	Lead wire length: 5m	
Lead wire with M12 connector, right-angled (spare)	ZS-31-C	Lead wire length: 5m	



# 2-colour Display Digital Pressure Switch for Air Series ISE70

## **Specifications**

		ISE70		
Rated pressure range		0 to 1MPa		
Set pressure	range	-0.1 to 1MPa		
Proof pressur	e	1.5MPa		
Set pressure	resolution	0.01MPa		
Fluid		Air, Inert gas, Non-flammable gas		
Power supply	voltage	12 to 24 VDC, Ripple (p-p) 10% or less (with power supply polarity protection)		
Current cons	umption	55 mA or less (at no load)		
Switch outpu	t	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) Note 1)		
	Max. load current	80 mA		
	Max. applied voltage	30 V (with NPN output)		
	Residual voltage	1 V or less (with load current of 80 mA)		
	Response time	2.5 ms (Response time selections 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.		
Hysteresis	Hysteresis mode	Adjustable (can be set from 0)		
Tiysieresis	Window comparator mode	Adjustable (call be set from 0)		
Display		3 digit, 7-segment indicator, 2-colour display (red and green) can be interlocked with the switch output, Sampling cycle: 5 times/s		
Display accu	racy	±2%F.S. ±1 digit or less (at 25 C ±3 °C)		
Indication lig	ht	Light up when output is ON (Green)		
Functions		Anti-chattering function, Unit display switching function, Zero out function, Key lock function		
	Enclosure	IP67		
	Fluid temperature range	0 to 50°C (with no freezing or condensation)		
Environ-	Operating temperature range	Operating: 0 to 50°C, Stored: –10 to 60°C (with no freezing or condensation)		
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 enclosure		
	Insulation resistance	$50~\text{M}\Omega$ or more between live parts and enclosure (at $500~\text{VDC}$ Mega)		
Temperature characteristics (Based on 25°C: Operating temperature range)		±2%F.S. or less		
Standard		Compliant with CE Marking and UL/CSA (UL508) standards		
Wetted mate	rial	Fitting: C3602 (electroless nickel plated), Sensor port: PBT, Sensor pressure receiving area: silicon, O-ring: NBR		
Port size		F02: G1/4 (ISO1179) Note 2)		
Lead wire		Lead wire with M12 4-pin pre-wired connector (5 m)		
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) G1/4: Applicable to ISO1179-1

#### **Dimensions**

The dimensions for ISE70 are common to ISE75 and ISE75H. Please see under ISE75 (following pages) for dimensions.





