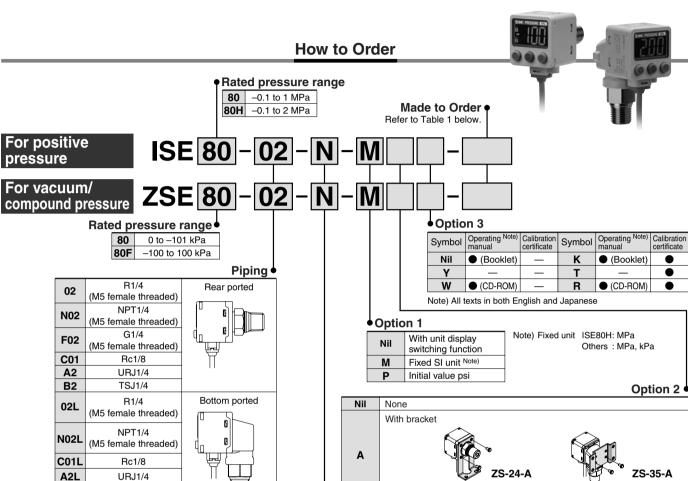
2-Color Display Digital Pressure Switch For General Fluids CRUS Series ZSE80/ISE80



N	NPN open collector 1 output
Р	PNP open collector 1 output
Α	NPN open collector 2 outputs
В	PNP open collector 2 outputs
R	NPN open collector 2 outputs + Analog voltage output/Auto-shift switching
Т	PNP open collector 2 outputs + Analog voltage output/Auto-shift switching
S	NPN open collector 2 outputs + Analog current output/Auto-shift switching
٧	PNP open collector 2 outputs + Analog current output/Auto-shift switching

TSJ1/4



Table 1 Made to Order

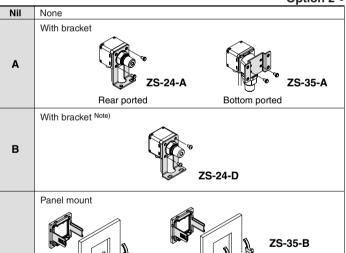
B₂L

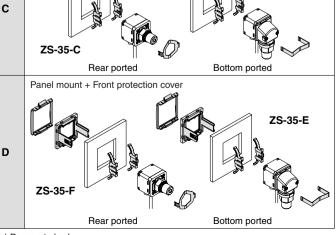
Symbol	Specifications			
-X500 Note)	Wetted parts: Stainless steel 316L			
-X501	Lead wire length 3 m			
-X510	Restrictor installed fitting			

Note) Not applicable to the rated pressure range 0 to 2 MPa specification. Refer to page 743 for detail.

Option

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Option	Piping direction	Part no.
	Rear ported	ZS-24-A
Bracket	Rear ported	ZS-24-D
	Bottom ported	ear ported ZS-24-A ear ported ZS-24-D ottom ported ZS-35-A ear ported ZS-35-C ottom ported ZS-35-B ear ported ZS-35-F
Panel mount	Rear ported	ZS-35-C
Faller mount	Bottom ported	ZS-35-B
Panel mount + Front protection cover	Rear ported	ZS-35-F
Failer mount + Front protection cover	Bottom ported	ZS-35-E





Note) Rear ported only

Specifications

	Mod	del	ZSE80 (Vacuum pressure)	ZSE80F (Compound pressure)	ISE80 (Positive pressure)	ISE80H (Positive pressure)		
Rated pressur								
Set pressure r	ange		10.0 to -111.0 kPa	-110.0 to 110.0 kPa	-0.105 to 1.100 MPa	-0.105 to 2.20 MPa		
Withstand pre	ssure		500 kPa 2 MPa 4 MPa					
Wetted parts n	naterial		Pressure sensor: Stainless steel 630, Fitting: Stainless steel 304					
Applicable flui	d			Fluids do not corrode sta	inless steel 630 and 304	1		
Port size			R1/4, NPT1/4, G1/4*, URJ1/4, TSJ1/4, Rc1/8 Piping direction: Rear/Bottom					
Power supply	voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less (with power supply polarity protection)					
Current consu	mption		45 mA or less					
			NPN 1 output, NPN 2 outputs, PNP 1 output, PNP 2 outputs					
	Maximum	load current	80 mA					
Switch	Maximum	load voltage		28 V (at N	PN output)			
output	Residual voltage			1 V or less (with loa	d current of 80 mA)			
	Response	time	2.5 ms (with anti-chattering functi	on: 20, 100, 500, 1000, 2	2000 ms)		
	Short circ	uit protection		Ye	es			
Repeatability				±0.2% F.	S. ±1 digit			
Hysteresis	Hysteresi Window c	s mode	Variable (0 or above)					
	Voltage	Output voltage (Rated pressure range)	1 to 5 V ±	-2.5% F.S.	0.6 to 5 V ±2.5% F.S.	0.8 to 5 V ±2.5% F.S		
	output	Linearity	±1% F.S. or less					
		Output impedance		Approx	κ. 1 kΩ			
Analog output		Output current (Rated pressure range)	4 to 20 mA ±2.5% F.S. 2.4 to 20 mA ±2.5% F.S.		3.2 to 20 mA ±2.5% F.S.			
	Current	Linearity		±1% F.S	3. or less			
	output	Load impedance	Maximum load impedance: 300 Ω (Power supply voltage 12 V) 600 Ω (Power supply voltage 24 V) Minimum load impedance: 50 Ω					
Auto-shift input Non-voltage input (Reed or Solid state), Low level: 0.4 V or less, 5 ms or longer in						ms or longer input		
Display			3 1/2-digit, 7-segment, 2-color LCD (Red/Green)					
Display accura	acv		±2% F.S. ±1 digit (Ambient temperature of 25 ±3°C)					
Indicator light			Lights up when output is turned ON. OUT1, OUT2: Orange					
Function			Anti-chattering, Zero-out, Key lock function, Auto-preset, Auto-shift, Unit display switching, Power-saving mode					
	Enclosure)		IP				
		temperature range	Operating:	0 to 50°C, Stored: –10 to	60°C (No freezing or co	ndensation)		
		humidity range	Operating/Stored: 35 to 85% RH (No condensation)					
Environment	Withstand voltage		250 VAC for 1 minute between live parts and case					
resistance	Insulation resistance		$2 M\Omega$ or more between live parts and case (at 50 VDC Mega)					
	Vibration resistance		10 to 150 Hz at whichever is smaller of 1.5 mm amplitude or 20 m/s² acceleration, in X, Y, Z directions, for 2 hours each (De-energized)					
	Impact resistance		100 m/s ² in X, Y, Z directions, 3 times each (De-energized)					
Temperature characteristics			±3% F.S. (Based on 25°C, within operating temperature range)					
Lead wire			Oilproof heavy-duty vinyl cable, 3 cores (N.P) ø3.5, 2 m 4 cores (A.B) Conductor area: 0.15 mm² (AWG26) 5 cores (R.T.S.V) Insulator O.D.: 0.95 mm					
Standards			CE marking, UL/CSA, RoHS compliance					
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^{*} G1/4 is available for rear ported only.

Piping Specifications

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Model	02	N02	F02	C01	A2	B2
Port size	R1/4	NPT1/4	G1/4	Rc1/8	URJ1/4	TSJ1/4
Mass (Bottom ported)	117 g	118 g	_	114 g	120 g	111 g
Mass (Rear ported)	89 g	90 g	86 g	86 g	92 g	83 g
Leakage	ge 1 x 10 ⁻⁵ Pa·m³/s			1 x 10 ⁻¹⁰	Pa·m³/s	

ZSP

PS

ISA

PSE

IS

ISG ZSM