DPS Series digital display pressure switch



Ordering code

DPS N1 -01 020 T 1 2 3 4 5 6			
①Model	②Output type	3Electrical entry	
DPS: Digital Display Pressure Switch	N1: NPN P1: PNP	Space: Plug-in connector B: Pre-wired type [Note]	
④Measurement range	5 Lead wire length	© Piping specifications	
01: -15psi~15psi 10: -15psi~150psi	020: Length 2m 030: Length 3m 050: Length 5m	T: Male thread NPT1/8, female thread: 10-32UNF	

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[Note] The safety grade of pre-wired type is IP63.

Specification

Input power	Voltage	12~24 VDC ± 10% Ripple(p-p) < 10%	
Pressure range	Fluid	Non-corrosive gas	
	Measurement	DPSN1(P1)-01: -15psi~15psi	
	range	DPSN1(P1)-10: -15psi~150psi	
	Withstand pressure	DPSN1(P1)-01: 30psi	
		DPSN1(P1)-10: 225psi	
	Measurement error	$\pm2\%\text{F.S.}$, $\pm1\text{digit}(\text{Temperature:}25\pm3^\circ\!\text{C})$	
	Repetitive accuracy	$\pm 0.2\%$ F.S.	
	Temperature error	$\pm3\%\text{F.S.}$ (Base $25^\circ\!\text{C}$, Range 0 to $50^\circ\!\text{C}$)	
Display	Туре	Double row LCD display,4-digit measurement, 3.5-digit setting	
	Color	2-color LCD (Red/Green)	
	Display period	100ms、250ms、500ms、1,000ms	
Output	Output group	DPSN1:Built-in two sets of NPN output	
		DPSP1:Built-in two sets of PNP output	
	Transistor output	NPN:Maximum applied voltage 30V/100mA,Retained voltage <1.5V	
		PNP:Maximum applied voltage 30V/100mA,Retained voltage <1.5V	
	Output delay time	$2ms_{\sim}~20ms_{\sim}~50ms_{\sim}~100ms_{\sim}~250ms_{\sim}~500ms$	
		$1,000 \text{ms}_{\sim}\ 2,500 \text{ms}_{\sim}\ 5,000 \text{ms}$	
	Hysteresis	DPSN1(P1)-01: 0.1、0.2、0.30.8(kPa)	
		DPSN1(P1)-10: 1 2 3 8(kPa)	
	Output mode	Basic mode, Hysteresis mode, Window comparator mode	
Pressure Unit	DPSN1(P1)-01	kPa、kgf/cm²、bar、psi、mmHg、inHg	
	DPSN1(P1)-10	MPa $_{\rm x}$ kPa $_{\rm x}$ kgf/cm $^2_{\rm x}$ bar $_{\rm x}$ psi $_{\rm x}$ cmHg $_{\rm x}$ inHg	
Vibration resistance		10 to 500Hz with 10mm Amplitude in X, Y, Z directions for 2hrs	
Impact resistance		Maximum 100m/s ² , X, Y, Z directions 3 times each	
Operating Temp. range		0~50° C	
Stored Temp. range		-20∼65 ℃	
Humidity range		$35\% \sim 80\%$ RH(No condensation)	