

# DIFFERENTIAL PRESSURE SWITCH-EXPLOSION TYPE

## DPS2100X

**Explosion Proof Type Protection: IP68**  
**Proof Pressure to 1000psi**  
**Adjustable Ranges: 3~500psi**  
**Temperature: -30 to 205°C**

The New-Flow DPS2100X, an explosion proof differential pressure switch, is designed to be used in control systems. DPS2100X has high set point repeatability and narrow dead band features. A variety of range selections are available upon request. Easily adjusted to the set point, no special tools needed!

### Technical Data

**Switch Data:** one SPDT & two SPDT Microswitch, 15amps 125/250VAC, DC 125V 0.4A, DC 30V 3A, / Gold Contact Microswitch 1A 125/250VAC, / Hermetically Sealed Switch 5A/250VAC

**Housing:** die cast aluminum alloy with paint, and SS316 available

**Conduit Connection:** Female 3/4", 1/2"NPT, M20 x P1.5 available

**Pressure Element:** welded type diaphragm

**Process Materials:** wetted parts are all in SS316

**Process Connection:** Female 1/2" or 1/4" NPT, BSP, PT; and M20 x P1.5 thread available


### Range Selection Table

Code	Adjustable Range	Dead Band	Maximum Pressure Proof
10R	3~28 psi	0.15~1.4 psi	1000 psi
20R	7~100 psi	0.35~5 psi	1000 psi
30R	35~200 psi	1.75~10 psi	1000 psi
40R	50~500 psi	2.5~25 psi	1000 psi

### Ordering Information

DPS2100X	Code	Range								
	10R	3~28 psi	20R	7~100 psi	30R	35~200 psi	40R	50~500 psi		
		Code	Wetted Parts Material							
		A	SS316							
			Code	Process Connection- Female						
				(1) 1/2"NPT (2) 1/4"NPT (3) 1/2"BSP (4) 1/4"BSP (5) 1/2"PT (6) 1/4"PT (7) M20 x P1.5						
			Code	Conduit Connection						
				(E) 3/4"NPT Female, standard (F) 1/2"NPT Female (G) M20 x P1.5 Female						
			Code	Switch Form						
			1	Micro Switch, 1 SPDT	2	Micro Switch, 2 SPDT (one setting point)				
			3a	Gold Contact, 1 SPDT	3b	Gold Contact, 2 SPDT (one setting point)				
			4a	Hermetically Switch, 1 SPDT	4b	Hermetically Switch, 2 SPDT (one setting point)				
			Code	Explosion Proof Type / Housing Material						
			A	Certificate on Housing Only (FM Approval) / Aluminum alloy: Class I, Groups A, B, C & D; Class II, Groups E, F & G; Class III; NEMA 4X						
			B / B1	Taiwan Explosion Proof Certification / (B) Aluminum alloy (B1) SS316: Ex d IIB + H2 T6 Gb						
			E	International IECEx Certification / Aluminum alloy: Ex db IIB + H2 T6 Gb; Ex tb IIIC T85°C Db						
			X	Europe Union ATEX Certification / Aluminum alloy: II 2 G D Ex db IIB + H2 T6 Gb; II 2 G D Ex tb IIIC T85°C Db						
			U	UL Certification / Aluminum alloy: Class I, Division 1, Groups A, B, C & D; Class II, Division 1, Groups E, F & G						
			G	China Explosion Proof Certification / Aluminum alloy: Ex d IIB + H2 T6 Gb; Ex tD A21 IP6X T85°C						
DPS2100X									Complete Ordering Code	

### Approvals:



**ABS**  
TYPE APPROVED PRODUCT

**EAC**

**TD0400TJ**  
工電(2012)第00320號  
(ITR)2017第07-00075號

**IEC** **IECEx** **Ex** **CE** 2503

**UL** US LISTED

**Ex** **MEPSI** GYB19.1794X

**Patent No.**  
M450724  
China: 2976852

**Switches with UL & CSA Recognized and File No. E12252.**

### Dimension

