D1X/D2X

Metal Diaphragm Switches 🖾

Mechanical single/dual pressure switch Repeatability ±1.0 % at constant temperature

Features

- ► Metal diaphragm pressure switch
- ► Wetted parts welded
- ► Direct action, no friction, high accuracy
- Approvals: Ex ia, Ex d, UL, SIL2/3 (IEC 61508)

Adjustment ranges

0.012 ... 10.3 bar and -0.006 ... -1 bar (Vacuum)

Applications

Petrochemical industry, Process technology



Technical Data

Wetted parts:	Stainless steel 17 - 7PH/SS304				
Repeatability:	±1 % at constant temperature				
Switching rate:	max. 20/min				
Temperature range:	-40 °C +75 °C				
Protection class:	IP65				
Housing:	Explosion proof housing, aluminum anodized and lacquered				
Process connection:	1/4" NPT female thread Optional: 1/2" NPT female thread (P2)				
Electrical connection:	Internal terminal strip (0.5 - 2.5 mm2), approved cable gland has to be provided by the customer				
Electrical ratings and hysteresis:	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.				

Weight	D1X: approx. 2.7 kg D2X: approx. 2.8 kg
Set point adjustment:	Turn the adjustment screw clockwise to decrease the set point
Intrinsically safe:	The switches are designed for intrinsically safe applications. Please add "Exi" to your ordering details when placing an order. To comply with the intrinsically safe approval following max. ratings must not be exceeded: Umax = 28 V Imax = 50 mA
Approval:	Ex: Ex d II C T6 acc. to ATEX cULus: Class I, Groups B, C, D Class II, Groups E, F, G acc. to Underwriter Laboratories Inc. and Canadian Standard Assn.

Pressure Ranges

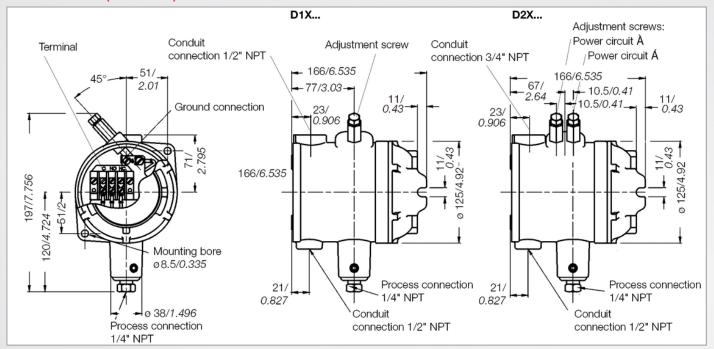
Pressure range code	Adjustmen	t range [bar]	Max. operating pressure [bar]	Proof pressure [bar]	Max. hysteresis of switch types in bar (end of range)				
	Increasing press.	Decreasing press.	-	(short term)	H, GH [bar]	M, GM [bar]			
Overpressure									
388	0.012 0.2 0.002 0.196		0.012 0.2		0.004	0.010			
18SS	0.050 1.2	0.030 1.2	3.0	4.0	0.010	0.040			
80SS	0.300 5.5	0.030 5.3	8.0	10.7	0.100	0.220			
150SS	0.500 10.3	00 10.3 0.100 9.9		20.0	0.180	0.400			
Vacuum									
388	S -0.0060.2 -0.0020.196		0.15	0.2	0.004	0.009			
18SS	-0.0401.0	-0.0401.0 -0.0200.970		1.0	0.020	0.060			

Pressure

Metal Diaphragm Switches &

D1X/D2X

Dimensions (mm / inch)



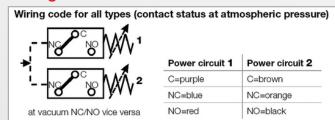
Approvals

EX	Ex d approval
UL	cULus approval
EXI	Ex i approval

Options

P2 = 1/2" NPT F SS Process connection

Wiring Code 1



Electrical Ratings

Micro switch	Special features	Volt AC 50/60 Hz	Ind. load A	Res. load A	Volt DC	Ind. load A	Res. load A	Comments
н	Micro switch with silver contacts	125 250 480*	10 10 3	10 10 3	6 to 24	0.50	0.5	Small hysteresis; High AC / low DC loads
М	Micro switch with silver contacts	125 250 480*	10 10 3	10 10 3	12 24 250	5.00 1.00 0.25	15.0 2.0 0.4	Medium hysteresis; High AC and DC loads
GH	Micro switch with gold- plated contacts for low voltage	125	1	1	24	1.00	1.00	Small hysteresis
GM	and/or low current	30	0.1	0.1	30	0.10	0.1	Medium hysteresis

Order Code

_		_		
Examp	le	tor	order	number

Туре				Micro switch	Pressure range		Options		Approval	
D1X	or	D2X	-	Н	3SS	-	P2	-	EX	
Vour order n	umbor									Ì

Your order number

Туре	Туре		Micro switch Pressure ran		Options			Approval
or	-				-		-	