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 and 1.4305					
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. In this case we recommend gold contacts. 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

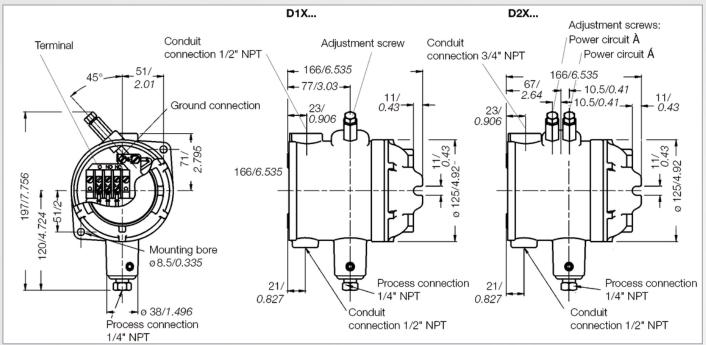
Pressure range	Adjustmen	t range [bar]	Max. operating pressure [bar]	Proof pressure [bar]	The resulting hysteresis is approx bar at the end of range					
code	Increasing press.	Decreasing press.	-	(short term)	H, GH [bar]	M, GM [bar]				
Overpressure										
3SS	0.012 0.2	0.002 0.196	0.5	0.7	0.005	0.010				
18SS	0.050 1.2	0.030 1.2	3.0	4.0	0.018	0.040				
80SS	0.300 5.5	0.030 5.3	8.0	10.7	0.110	0.220				
150SS	0.500 10.3	0.100 9.9	15.0	20.0	0.190	0.400				
Vacuum										
3SS -0.0060.2		-0.0020.196	0.15	0.2	0.004	0.009				
18SS	-0.0401.0	-0.0200.970	0.5	1.0	0.030	0.060				

Pressure

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Dimensions (mm / inch)



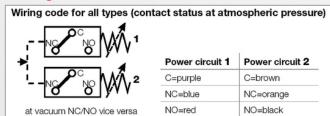
Approvals

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 / Iow 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 contacts for low voltage and/or	125	1	1	24	1.00	1.00	Small hysteresis
GM	low current (e. g. "Exi")	30	0.1	0.1	30	0.10	0.1	Medium hysteresis

Order Code

Examp	le i	for	ord	er	num	ber
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Type				Micro switch	Pressure range		Options		Approval	
D1X	or	D2X	-	GH	3SS	-	P2	-	EX	
V										

Your order number

Туре		Micro switch	Pressure range		Options		Approval
or	-			-		-	