D1X/D2X

Metal Diaphragm Switches **(25)**

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

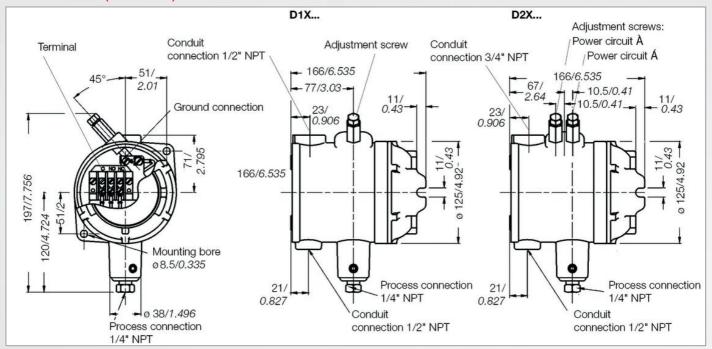
Pressure range code	Adjustmen	t range [bar]	Max. operating pressure [bar]	Proof pressure [bar]	The resulting hysteresis is approx bar at the end of range			
	Increasing press.	Decreasing press.	-	(short term)	H, GH [bar]	M, GM [bar]		
Overpressure								
388	0.012 0.2	0.002 0.196	0.5	0.7	0.005	0.010		
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								
388	-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

Metal Diaphragm Switches (a)

D1X/D2X

Dimensions (mm / inch)



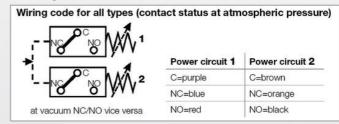
Approvals

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 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 for	order	number	
-------	--------	-------	--------	--

Туре			Micro switch		Pressure range		Options		Approval
D1X or	D2X	-	GH		3SS	-	P2	-	EX
Your order number									
Туре			Micro switch	1	Pressure range		Options		Approval
0,4									