

Metal Diaphragm Switches

Type D1X / D2X

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

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 mm ²), 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: U _{max} = 28 V I _{max} = 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	Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar] (short term)	Max. hysteresis of switch types in bar (end of range)	
	Increasing press.	Decreasing press.			H, GH [bar]	M, GM [bar]
Overpressure						
3SS	0.012 ... 0.2	0.002 ... 0.196	0.5	0.7	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	0.100 ... 9.9	15.0	20.0	0.180	0.400
Vacuum						
3SS	-0.006 ... -0.2	-0.002 ... -0.196	0.15	0.2	0.004	0.009
18SS	-0.040 ... -1.0	-0.020 ... -0.970	0.5	1.0	0.020	0.060

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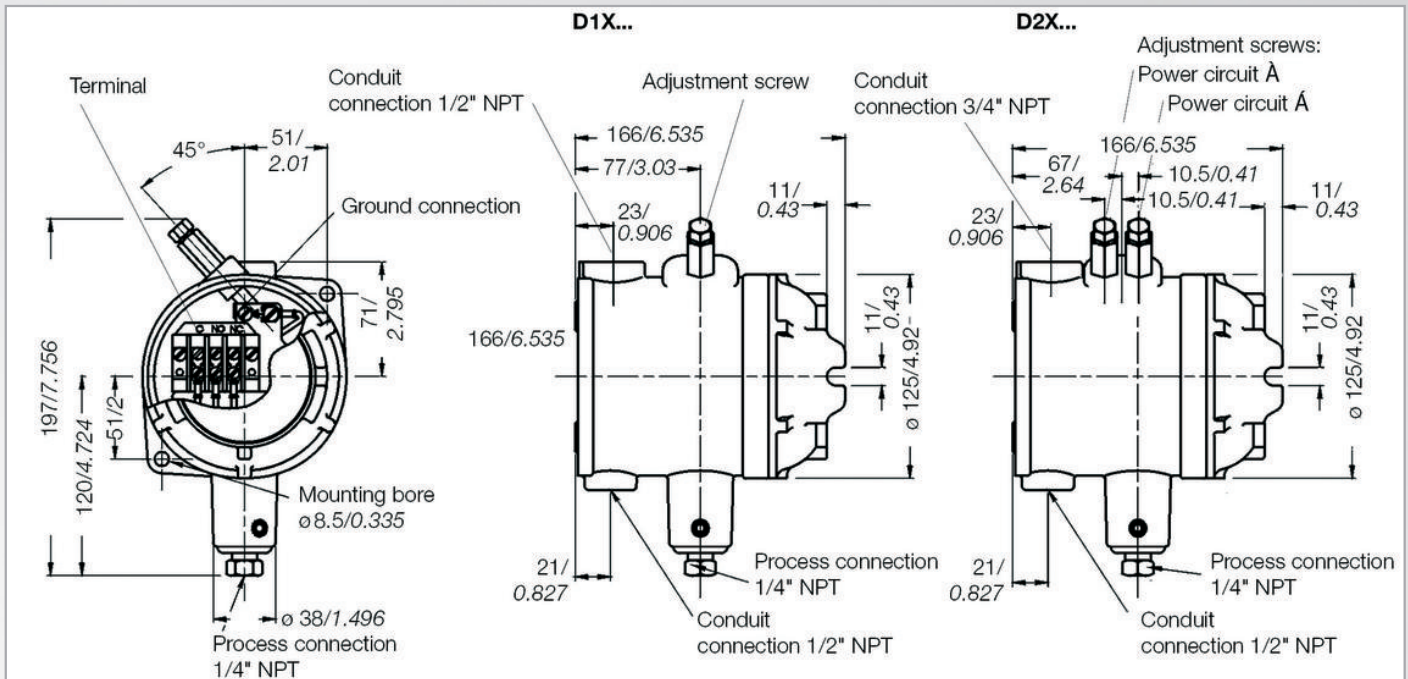


Pressure

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Dimensions (mm / inch)



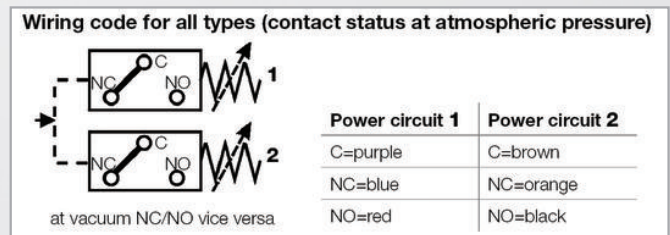
Approvals

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
H	Micro switch with silver contacts	125	10	10	6	0.50	0.5	Small hysteresis; High AC / low DC loads
		250	10	10	to			
		480*	3	3	24			
M	Micro switch with silver contacts	125	10	10	12	5.00	15.0	Medium hysteresis; High AC and DC loads
		250	10	10	24	1.00	2.0	
		480*	3	3	250	0.25	0.4	
GH	Micro switch with gold-plated contacts for low voltage	125	1	1	24	1.00	1.00	Small hysteresis
GM	Micro switch with gold-plated contacts for low current and/or low current	30	0.1	0.1	30	0.10	0.1	Medium hysteresis

Order Code

Example for order number

Type	Micro switch	Pressure range	Options	Approval
D1X or D2X	H	3SS	P2	EX

Your order number

Type	Micro switch	Pressure range	Options	Approval

