

Metal Diaphragm Pressure Switches

D1S/D2S

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

Features

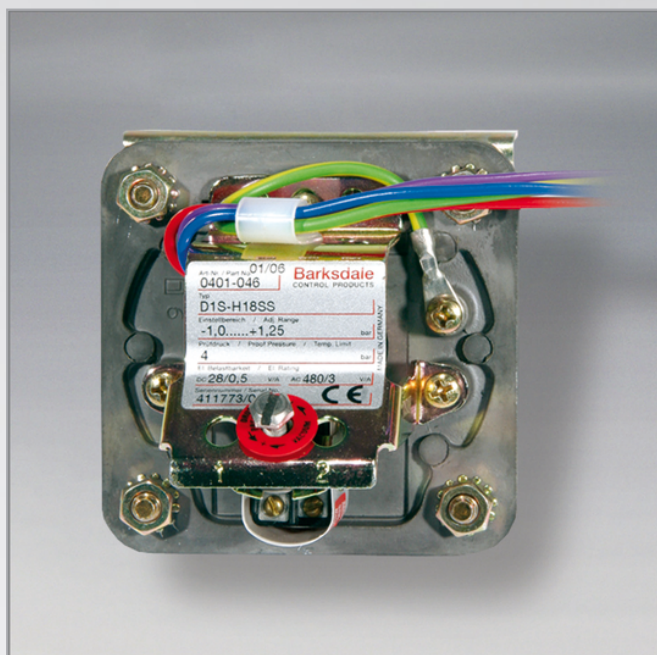
Metal diaphragm pressure switch
Wetted parts welded.
Direct action, no friction, high accuracy

Adjustment ranges

0.005 ... 10.3 bar and
-0.006 ... -1 bar (Vacuum)

Applications

Machine and tool engineering,
Autoclaves,
Pump control,
Refrigerant monitoring



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:	IP00
Housing:	Without housing for installation in control panels
Process connection:	1/4" NPT female thread Optional: 1/2" NPT female thread (P2)

Electrical connection:	Lead wire PVC 1.5 mm ² , length appr. 450 mm
Electrical ratings and hysteresis:	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.
Weight:	D1S-...: approx. 0.6 kg D2S-...: approx. 0.7 kg
Set point adjustment:	Turn the adjustment screw clockwise to decrease the set point
Approval:	---

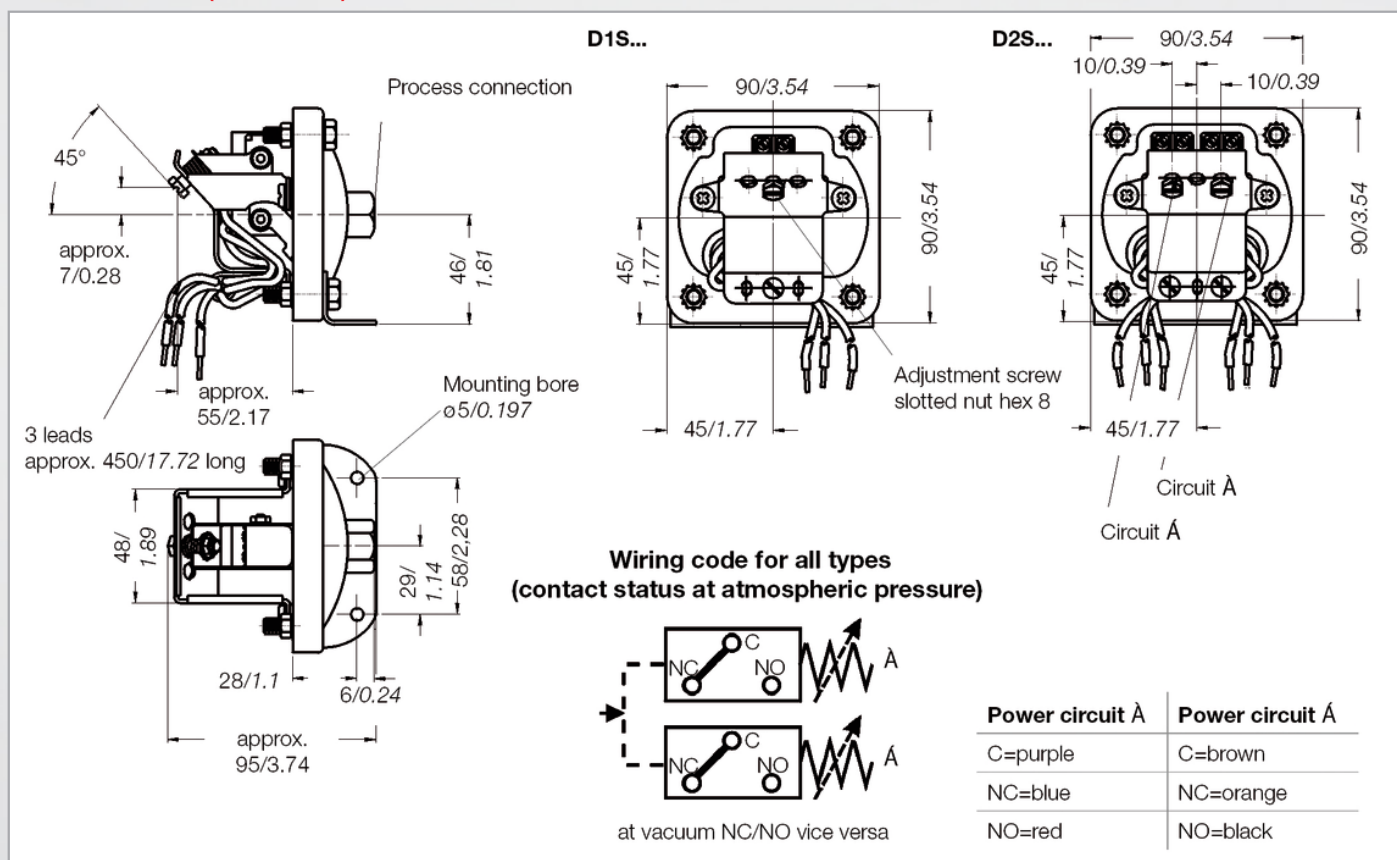
Pressure Ranges

Pressure range code	Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar] (short term)	The resulting hysteresis is approx. ... bar at the end of range	
	Increasing press.	Decreasing press.			H, GH [bar]	M, GM [bar]
Overpressure						
2SS	0.005 ... 0.11	0.001 ... 0.11	0.13	0.2	0.004	0.006
3SS	0.012 ... 0.20	0.002 ... 0.196	0.47	0.7	0.005	0.010
18SS	0.050 ... 1.20	0.030 ... 1.20	2.7	4.0	0.018	0.040
80SS	0.300 ... 5.50	0.030 ... 5.30	7.1	10.7	0.110	0.240
150SS	0.500 ... 10.30	0.100 ... 9.90	13.3	20.0	0.190	0.420
Vacuum						
3SS	-0.006 ... -0.20	-0.002 ... -0.196	0.13	0.2	0.004	0.009
18SS	-0.040 ... -1.00	-0.020 ... -0.970	0.67	1.00	0.030	0.060

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Dimensions (mm / inch)



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	125 250 480*	10 10 3	10 10 3	6 to 24	0.50	0.5	Small hysteresis; High AC-/low DC-load
M	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 low current	125	1	1	24	1.00	1.00	Small hysteresis
GM		30	0.1	0.1	30	0.10	0.1	Medium hysteresis

Options

P2 = 1/2" NPT F SS Process connection

Order Code

Example for order number

Type	Micro switch	Pressure range code	Options
D1S or D2S -	H	3SS -	P2

Your order number

Type	Micro switch	Pressure range code	Options
or	-	-	