

Metal Diaphragm Pressure Switches

Type **D1S-.../D2S-...**

Mechanical single/dual pressure switch
Repeatability $\pm 1.0\%$ 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)

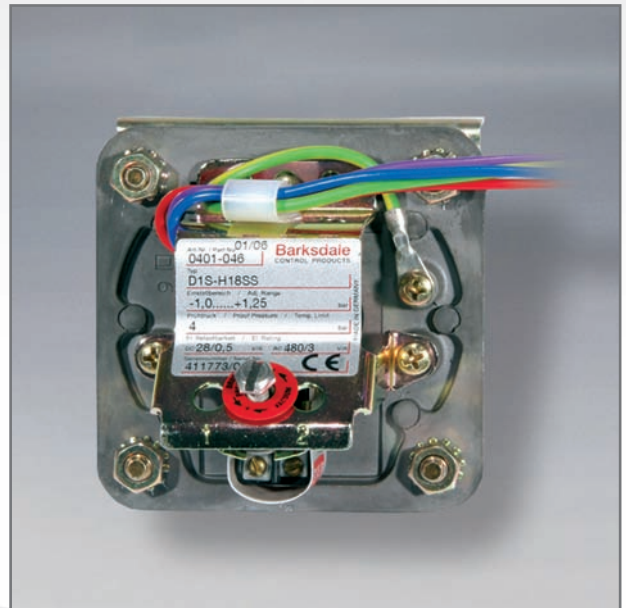
Applications

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

Technical Data

Wetted parts:	Stainless steel 17-7PH/SS304
Repeatability:	$\pm 1\%$ 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:	---



Index: D

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							
2SS	0.005 ... 0.11	0.001 ... 0.11	0.15	0.2	0.004	0.006	
3SS	0.012 ... 0.20	0.002 ... 0.196	0.5	0.7	0.004	0.010	
18SS	0.050 ... 1.20	0.030 ... 1.20	3.0	4.0	0.010	0.040	
80SS	0.300 ... 5.50	0.030 ... 5.30	8.0	10.7	0.110	0.240	
150SS	0.500 ... 10.30	0.100 ... 9.90	15.0	20.0	0.180	0.420	
Vacuum							
3SS	-0.006 ... -0.20	-0.002 ... -0.196	0.15	0.2	0.004	0.009	
18SS	-0.040 ... -1.00	-0.020 ... -0.970	0.5	1.0	0.020	0.060	

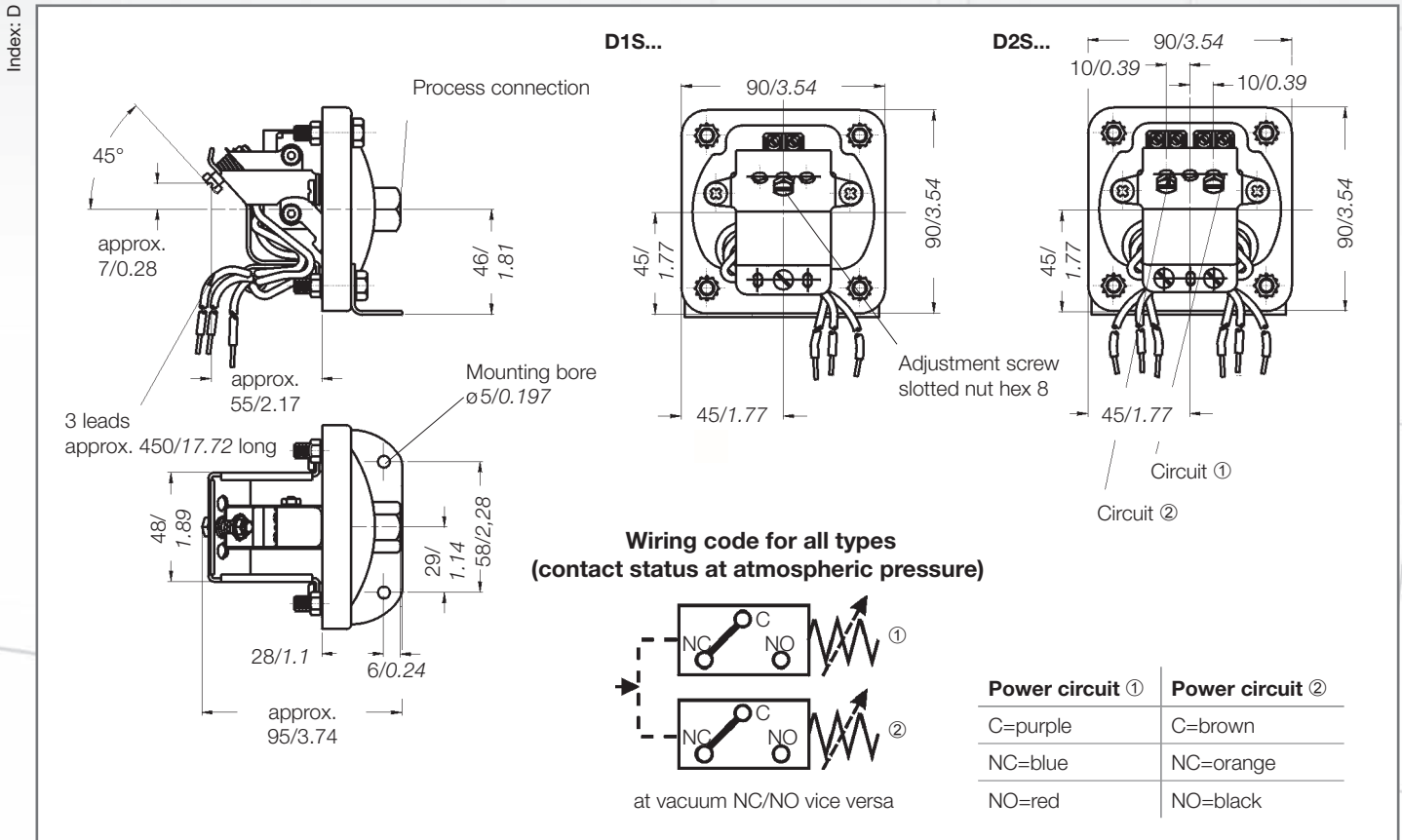
Specifications are subject to changes without notice.

Pressure

Metal Diaphragm Pressure Switches

Type D1S-.../D2S-...

Dimensions (in 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	10	10	6	0.50	0.5	Small hysteresis; High AC / low DC loads
		250	10	10	to 24			
		480*	3	3				
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			
		480*	3	3	250			
GH	Micro switch with gold contacts for low voltage and low current	125	1	1	24	1.00	1.0	Small hysteresis
GM		30	0.1	0.1	30			0.10

* on request

Options

P2 = 1/2" NPT F SS Process connection

Ordering

Example for order number

Type **D1S** or **D2S** — Micro switch **H** — Pressure range **3SS** — Options **P2**

Your order number

Type or — Micro switch — Pressure range — Options