

Bourdon Tube Pressure Switches

B1S/B2S

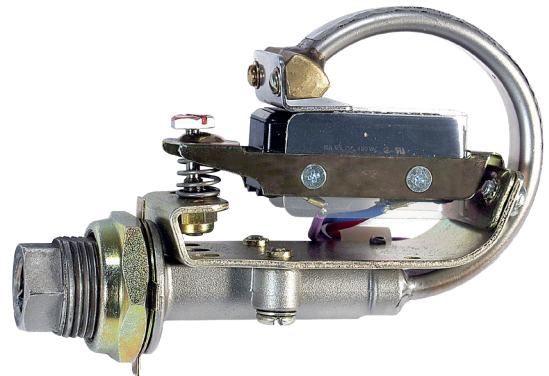
Mechanical single/dual pressure switch
Repeatability ± 1.0 % at constant temperature

Features

- Bourdon tube pressure switch
- Switching point during operation with can be set with the corresponding reference device
- All wetted parts welded

Adjustment ranges

- 4.8 ... 950 bar



Applications

- Pump control
- Die-casting machines
- Press control
- Power plants
- Alarm functions

Technical Data

Wetted parts	Stainless steel 1.4401
Process connection	Stainless steel 1.4401
Bourdon tube	Stainless steel 1.4401
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 except ranges marked with *). These switches have proof pressures above 500 bar and are provided with high pressure thread with adapter "G1/4 female".

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	B1S-...: approx. 0.6 kg B2S-...: approx. 0.7 kg
Set point adjustment	Turn the adjustment screw clockwise to decrease the set point
Approval	---

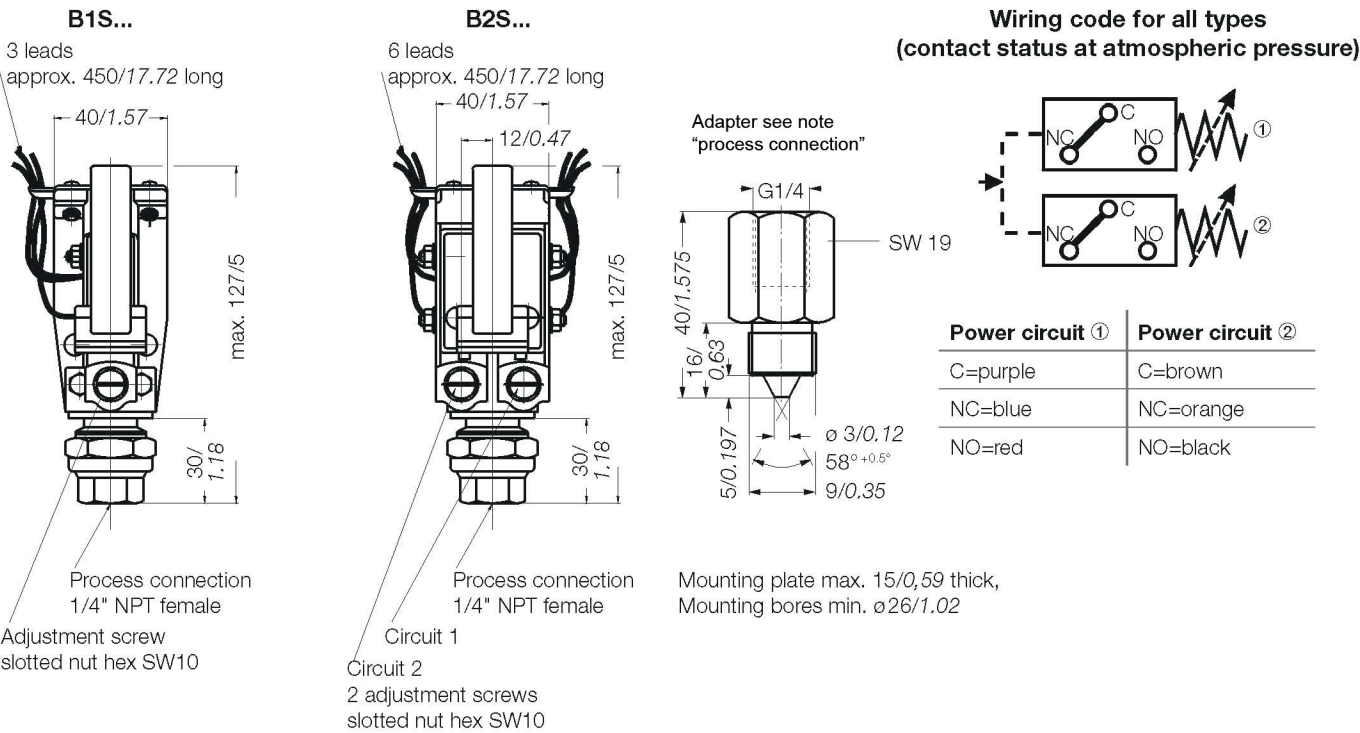
Pressure Ranges

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 [bar]
12SS	4.8 ... 82	3.4 ... 81	90	100	0.96	1.86
32SS	13.7 ... 220	11.0 ... 217	250	280	2.68	5.44
48SS	22.4 ... 330	16.5 ... 325	370	415	2.75	5.90
65SS	30.3 ... 448	22.5 ... 440	500	560	3.58	7.92
120SS	79.3 ... 827	41.4 ... 790	850	1035	16.90	37.90
180SS	79.3 ... 950	41.4 ... 950	999	1380	16.90	37.90

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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	10	10	6	0.50	0.5	Small hysteresis; High AC-/ low DC-load
		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 contacts for low voltage and/or low current	125	1	1	24	1.00	1.00	Small hysteresis

* on request

Order Code

Base model					
B	Bourdon tube pressure switch				
	Number of switching points				
	1	1 switchpoint			
	2	2 switchpoints			
	Housing type				
	S	stripped version			
	Micro switch contact type				
	-H	H-micro switch			
	-GH	GH-micro switch			
	-M	M-micro switch			
	Pressure range				
12	4.8 ... 82.0 bar				
32	13.7 ... 220,0 bar				
48	22.4 ... 330.0 bar				
65	30.3 ... 448.0 bar				
120	79.3 ... 827.0 bar				
180	79.3 ... 950.0 bar				
	Material of wetted parts				
	SS	Stainless steel, 1.4401			
Example					
B	1	S	-GH	48	SS