

# Bourdon Tube Pressure Switches

## Type B1S/B2S

Mechanical single/dual pressure switch  
Repeatability  $\pm 1.0$  % at constant temperature

### Features

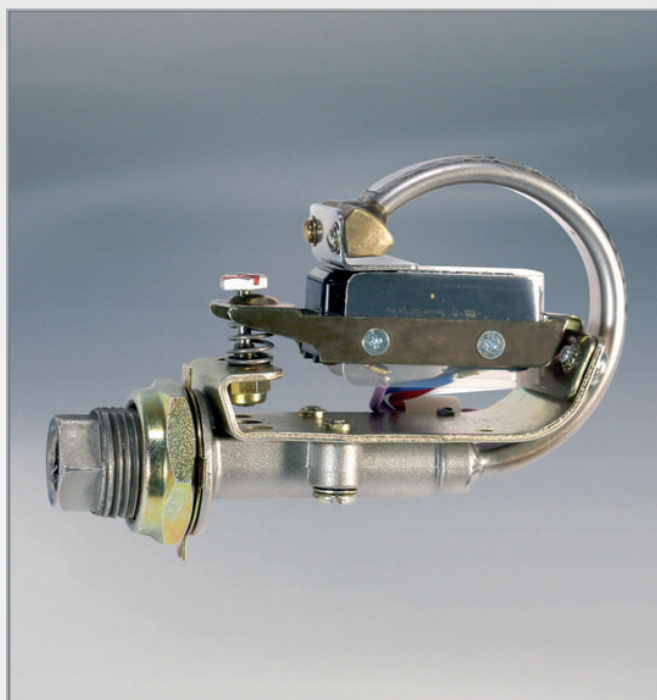
Bourdon tube pressure switch  
All welded parts wetted.  
Direct acting, no friction, high accuracy

### Adjustment ranges

4.8 ... 950 bar

### Applications

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



### Technical Data

<b>Wetted parts:</b>	
Process connection:	Stainless steel 1.4401
Bourdon tube:	Stainless steel 1.4401
<b>Repeatability:</b>	$\pm 1$ % at constant temperature
<b>Switching rate:</b>	max. 20/min
<b>Temperature range:</b>	-40 °C... +75 °C
<b>Protection class:</b>	IP00
<b>Housing:</b>	Without housing for installation in control panels:
<b>Process connection:</b>	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".
<b>Electrical connection:</b>	Lead wire PVC 1.5 mm <sup>2</sup> , length appr. 450 mm

<b>Electrical ratings and hysteresis:</b>	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.
<b>Weight:</b>	B1S-....: approx. 0.6 kg B2S-....: approx. 0.7 kg
<b>Set point adjustment:</b>	Turn the adjustment screw clockwise to decrease the set point
<b>Intrinsically safe:</b>	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 <sub>max</sub> = 28 V I <sub>max</sub> = 50 mA
<b>Approval:</b>	---

### Connection Chart

Pressure range code	Adjustment range [bar]		Max. operating pressure [bar]	Test pressure [bar] (short term)	Max. hysteresis of switch types in bar (end of range)	
	Increasing press.	Decreasing press.			H, GH [bar]	M, GM [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