

# Bourdon Tube Press. Switches

## B1X/B2X

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

5.3 ... 496 bar

### Applications

Petrochemicals industry,  
 Process technology,  
 Shipbuilding technology,  
 Alarm applications



### Technical Data

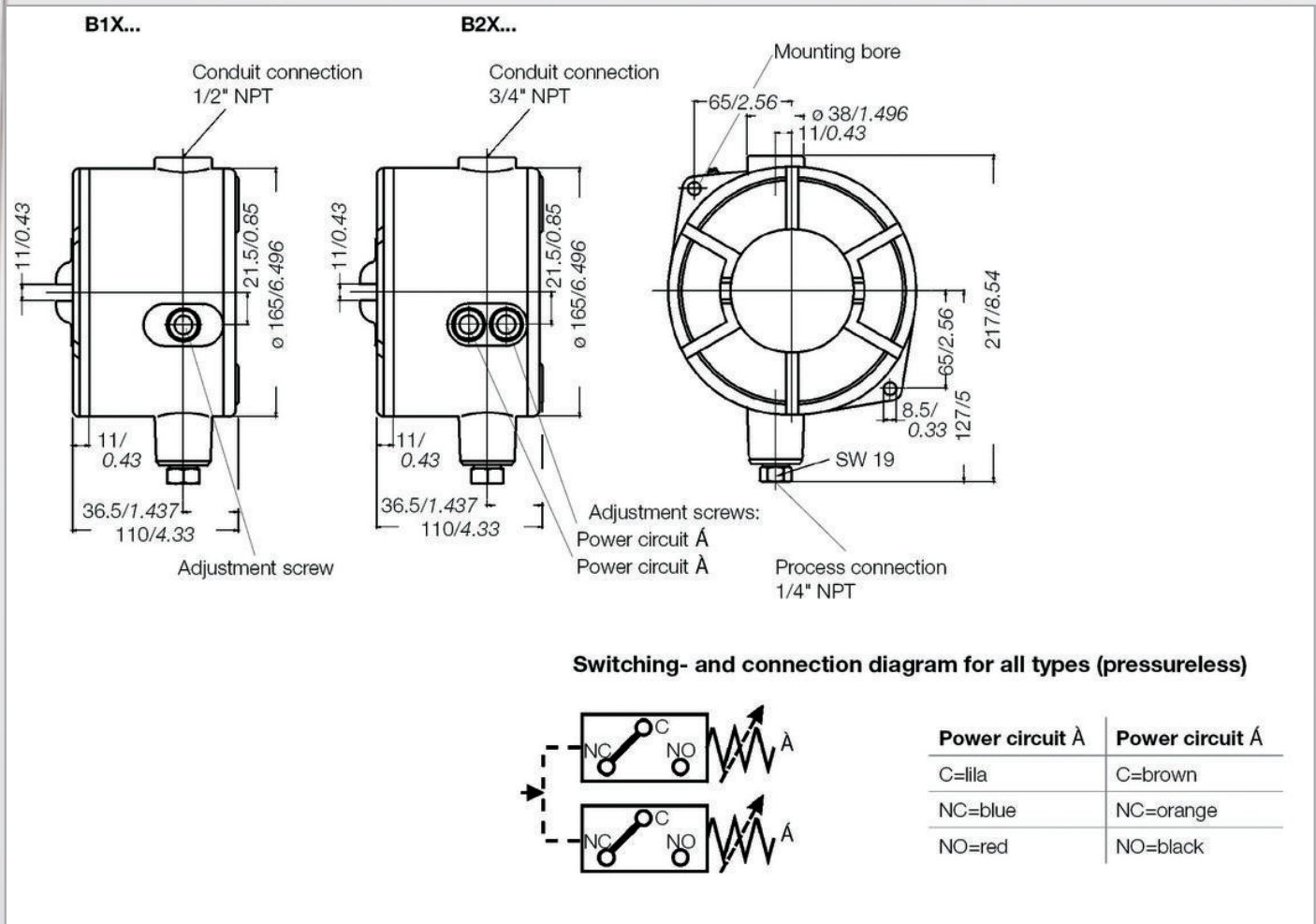
<b>Wetted parts:</b>	
Process connection:	Stainless steel 1.4401
Bourdon tube:	Stainless steel 1.4401
<b>Repeatability:</b>	$\pm 1$ % at constant temperature
<b>Switching rate:</b>	max. 20/min
<b>Temperature range:</b>	-40 °C... +75 °C
<b>Protection class:</b>	IP65
<b>Housing:</b>	Explosion proof housing, aluminum anodized and lacquered
<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" IG.
<b>Electrical connection:</b>	Internal terminal strip (0.5 - 2.5 mm <sup>2</sup> ), approved cable gland has to be provided by the customer
<b>Electrical rating and hysteresis:</b>	Many micro switch versions with different switching powers and hysteresis are applicable and make it possible to make customized changes.

<b>Weight:</b>	B1X-....: approx. 3.9 kg B2X-....: approx. 3.9 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>	<b>Ex:</b> Ex d II C T6 acc. to ATEX <b>cULus:</b> 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. hyst. of the different switches in bar (end of range)	
	Increasing press.	Decreasing press.			H, GH [bar]	M, GM [bar]
12SS	5.3... 83	3.4... 81	100	125	0.96	1.86
20SS	13.7... 137	11.0... 134	250	330	2.68	5.44
32SS	22.4... 220	16.5... 215	400	500	2.75	5.90
72SS*	79.3... 496	41.4... 459	600	950	16.90	37.90

### 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-plated contacts for low voltage and/ or 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

\* on request

### Approvals

EX	Ex d approval
UL	cULus approval
EXI	Ex i approval

### Options

P2 = 1/2" NPT F SS Process connection

### Order Code

Example for order number

Type	Micro switch	Pressure range code	Options	Approval
B1X or B2X	H	72SS	P2	UL

Your order number

Type	Micro switch	Pressure range code	Options	Approval



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Subject to technical changes.

**Barksdale**