# B1X/B2X

# **Bourdon Tube Press. Switches**

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

#### **Features**

- ► Bourdon tube pressure switch
- ► All welded parts wetted
- ► Direct acting, no friction, high accuracy
- Approvals: Ex ia, Ex d, UL, CSA, SIL 2/3 (IEC 61508)

# **Adjustment ranges**

5.3 ... 496 bar

# **Applications**

Pump control, Injection moulding, Press control, Power plants, Alarm functions



### **Technical Data**

Wetted parts: Process connection: Bourdon tube:	Stainless steel 1.4401 and 1.4305 Stainless steel 1.4401
Repeatability:	±1 % at constant temperature
Switching rate:	max. 20/min
Temperature range:	-40 °C +75 °C
Protection class:	IP65
Housing:	Explosion proof housing, aluminum anodized and lacquered
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" IG.
Electrical connection:	Internal terminal strip (0.5 - 2.5 mm²), approved cable gland has to be provided by the customer
Electrical rating and hysteresis:	Many micro switch versions with different switching powers and hysteresis are applicable and make it possible to make customized changes.

Weight:	B1X: approx. 3.9 kg B2X: approx. 3.9 kg
Set point adjustment:	Turn the adjustment screw clockwise to decrease the set point.
Intrinsically safe:	The switches are designed for intrinsically safe applications. In this case we recommend gold contacts. 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:  Umax = 28 V Imax = 50 mA
Approval:	Ex: Ex d II C T6 acc. to ATEX cULus: Class I, Groups B, C, D Class II, Groups E, F, G acc. to Underwriter Laboratories Inc. and Canadian Standard Assn.

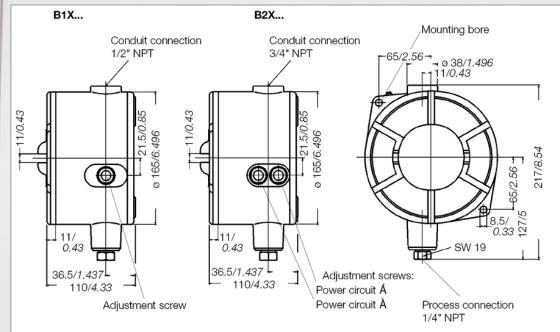
# **Pressure Ranges**

Pressure range	ge Adjustment range [bar]		Max. operating	Proof pressure [bar]		ifferent switches in of range)
code	Increasing press.	Decreasing press.	pressure [bar]	(short term)	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

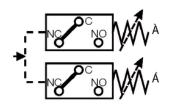
# **Bourdon Tube Press. Switches**

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# Dimensions (mm / inch)



### Switching- and connection diagram for all types (pressureless)



Power circuit À	Power circuit Á
C=lila	C=brown
NC=blue	NC=orange
NO=red	NO=black

# **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
Н	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
М	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/or	125	1	1	24	1.00	1.00	Small hysteresis
GM	low current (e. g. "Exi")	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

### **Order Code**

### Example for order number

Туре				Micro switch	Pressure range code		Approval
B1X	or	B2X	-	GH	72SS	] - [	EXI
Your order ni	umber						

ou.	0.40.		
т	ivna		

Туре	Micro switch	Pressure range code	Approval
or	-		-