

Bourdon Tube Press. Switches

B1X/B2X

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

Features

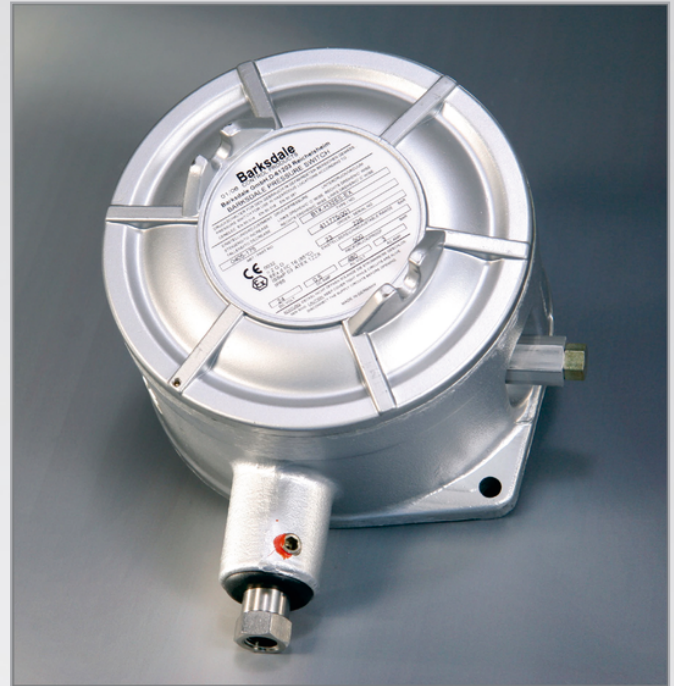
- ▶ Bourdon tube pressure switch
- ▶ All welded parts wetted
- ▶ Direct acting, no friction, high accuracy
- ▶ Approvals: Ex ia, Ex d, UL, CSA, SIL 2/3 (IEC 61508)

Adjustment ranges

5.3 ... 496 bar

Applications

Petrochemicals industry,
Process technology,
Shipbuilding technology,
Alarm applications



Technical Data

| | |
|--|---|
| Wetted parts: | |
| 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: | 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 mm ²), 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. 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 _{max} = 28 V I _{max} = 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 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 |