



Pressure and Differential Pressure Switches, Explosion-Proof Enclosure, Type 700, B-Series

This broad Ashcroft® switch series is ideal for use in virtually all process and industrial applications.

- Explosion-proof NEMA 7/9, IP66 enclosure (explosion-proof enclosure Class I, Div. 1 & 2, Groups B, C, & D and Class II, Div. 1 & 2, Groups E, F & G)
- Choice of switch elements for all applications, including hermetically sealed
- Wide choice of wetted materials, including all-welded Monel or stainless steel
- Fixed or limited adjustable deadband
- UL listed

- Various actuators available
- Belleville actuator⁽⁸⁾
- Readily available
- Standard pressure connection materials:

Pressure psi ranges
- 316L SS

Differential psid ranges
- Nickel plated brass⁽⁹⁾

Pressure and differential inches of water ranges
- Epoxy coated carbon steel

- ATEX models available⁽⁸⁾
- CSA models available⁽⁸⁾
- FM models available⁽⁸⁾



ATEX model shown

1 - ENCLOSURE

- B7** - Pressure switch, type 700, explosion-proof enclosure meets Div.1 & 2, NEMA 7/9, IP66 requirements
- D7** - Differential pressure switch, type 700, explosion-proof enclosure meets Div. 1 & 2, NEMA 7/9, IP66 requirements

2 - SWITCH ELEMENTS

Order Code	Description/Maximum Electrical Ratings	UL/CSA Listed SPDT
20 ⁽⁴⁾	Narrow deadband	15A, 125/250 Vac
21 ⁽⁹⁾	Ammonia service	5A, 125/250 Vac
22 ⁽³⁾	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
23	Heavy duty ac	20A, 125/250 Vac
24 ⁽¹⁾	General purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
25	Heavy duty dc	10A, 125/ Vac or dc 1/8HP 125/ Vac or dc
26 ⁽⁴⁾	Sealed environment proof	15A, 125/250 Vac
27	High temp. 300°F	15A, 125/250 Vac
31	Low level (gold) contacts	1A, 125/250 Vac
32	Hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc
50	Variable deadband	15A, 125/250 Vac
UL/CSA Listed Dual SPDT⁽²⁾		
61 ⁽⁴⁾	Dual narrow deadband	15A, 125/250 Vac
62 ⁽⁴⁾	Dual narrow environment proof	15A, 125/250 Vac
63	Dual high temp. 300°F	15A, 125/250 Vac
64	Dual general purpose	15A, 125/250/480 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
65	Dual ammonia service	5A, 125/250/480 Vac
67 ⁽³⁾	Hermetically sealed switch, narrow deadband	5A, 125/250 Vac
68	Dual hermetically sealed switch, general purpose	11A, 125/250 Vac 5A, 30 Vdc

3 - ACTUATOR SEAL⁽⁷⁾

Code & Material	Process Temp. ⁽⁶⁾ Limits °F	Range			
		Vac in. H ₂ O	0-600 psi	1000 psi	2000-3000 psi
B-Buna N	0 to 150	●	●	●	●
V-Viton	20 to 300	●	●	●	
T-Teflon	0 to 150	●	●	●	●
S-SS ⁽⁵⁾⁽¹⁰⁾	0 to 300		●	●	
P-Monel ⁽⁵⁾	0 to 300		●	●	

4 - OPTIONS

(See pages 229-230)

5 - STANDARD PRESSURE RANGES

(See page 226)

NOTES:

- Standard switch.
- Dual switches are 2 SPDT snap-action switches not independently adjustable.
- Estimated dc rating, 2.5A, 28 Vdc (not UL listed).
- Estimated dc rating, .4A, 120 Vdc (not UL listed).
- Available on pressure only.
- Ambient operating temperature limits -20 to 150°F, all styles. Setpoint shift of ±1% of range per 50°F is normal. Switch calibrated at 70°F reference.
- Items are wetted by process fluid.
- Refer to Option Table.
- Order Option XUD, stainless steel process connection.
- On differential switches, stainless steel is available in 15, 30, 60 and 90 psid ranges only. Includes Teflon O-ring and 316 SS connection.

ATEX APPROVAL FOR HAZARDOUS LOCATIONS

ATEX is a European designation that deals with standards for equipment and protective systems intended for use in potentially explosive atmospheres. This approval is required for switches intended for use in hazardous locations, especially important to OEMs who export to Europe and contractors specifying or purchasing products for European applications. XCN option adds special features to Ashcroft 700-Series switch enclosures that meet the requirements for the highest levels of security and danger, such as:

- Special locking device requiring an Allen wrench to remove cover
- Special vents that blow out should the diaphragm rupture, thus preventing pressure build-up in the enclosure
- Special conduit plug requiring an Allen wrench for removal
- Available on pressure, temperature and differential pressure models
- Meets Explosion Class EEx d IIC T6

TO ORDER THIS B-SERIES PRESSURE SWITCH:

- Select: **B7 20 B X06 600 psi**
- Enclosure: _____
 - Switch Element: _____
 - Actuator Seal: _____
 - Options (see pages 229-230): _____
 - Pressure Range (see page 226): _____