ASHCROFT®
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Ashcroft® Switches

PIP #: SW-PI-43F

Applicable to:

AGENCY APPROVALS FOR ASHCROFT PRESSURE AND TEMPERATURE SWITCHES

Most Ashcroft switches carry Agency listings. This assures customers that recognized standard design practice has been followed and the switches continue to be built to that standard. The most widely acceptable Agency Listing is U.L. (Underwriter's Laboratories). They thoroughly review our plant four times each year to assure compliance to their standards.

CSA (Canadian Standards Association) is similar to U.L. in Canada. Ashcroft maintains CSA approvals on many products because our customers often ship products containing our switches into Canada. Product with watertight enclosures are identical to the U.L. versions, therefore you do not need to order CSA specially. Explosion-Proof product design is slightly different, so you need to order OPTION XC8 to get CSA approval on explosion-proof switches.

FM (Factory Mutual) is also a well recognized agency, especially in the burner and boiler market. They tend to be more application specific. Please note the FM approval type listed is on page 3, before making a final selection.

When ordering FM switches, you must add XFM to the switch part number because there are differences between FM and standard product.

"CE Mark" is a symbol (CE) that is applied to products that signify all European directives that apply to that product have been met. All Ashcroft pressure, temperature and differential pressure switches carry the CE mark except A-Series and N-Series.

ATEX is the European Committee for Electromechanical Standardization. ATEX among others, has developed a group of standard, designated European Norms (EN), sometimes referred to as Harmonized European Standards. These standards define the minimum safety requirements for a wide variety of products. ATEX generally deals with standards for equipment and protective systems intended for use in potentially explosive atmospheres, which is the European term for hazardous locations. Ashcroft 700 Series Pressure, Temperature and Differential Pressure switches may be ordered with ATEX approval by adding option XCN. XCN adds special features to the Ashcroft 700 Series switch enclosures that meet requirements for the highest levels of security and danger. Therefore, 700 Series with XCN are suitable for virtually all European hazardous location applications.

OPTIONS

Most of our options are U.L. listed as well. For your convenience, we have included copies of the U.L. file cards which list all the approved options and serve as evidence of the approval.

These cards are referenced by the U.L. file number on page 2. Use the letter designation (i.e. NKPZ) in the file number column to identify the appropriate card.

All specifications are subject to change without notice.
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	PRODUCT	LISTING CATEGORY	UL FILE #	CSA FILE #
Pressure Switches	B400	Component-Motor Controllers Float and Pressure Operated E34743	NKPZ2	LR55528-1
	B700	Float and Pressure Operated Motor Controllers for Hazardous Locations E38812	NOWT	LR55541-3
	LP_N4 GP_N4 PP_N4 AP_N4 PP_N7 AP_N7 FP_N7	Motor Controllers, Float and Pressure Operated “ “ “ “ Float and Pressure Operated Motor Controllers for Hazardous Locations “ “ “ “ “ “ “ “	NKPZ E34743 “ “ NOWT E38812 “ “	LR55528-4 LR55528-6 LR55528-4 LR55541-2
Differential Pressure Switches	D400	Motor Controllers Float and Pressure Operated E34743	NKPZ LR55528-1	
	D700	Float and Pressure Operated Motor Controllers for use in Hazardous Locations E38812	NOWT	LR55541-3
	LD_N4 GD_N4 PD_N4 PD_N7	Motor Controllers, Float and Pressure Operated “ “ Float and Pressure Operated Motor Controllers for Hazardous Locations E38812	NKPZ E34743 “ NOWT	LR55528-4 LR55528-6 LR55528-3 LR55528-2
Temperature Switches	T400	Temperature-Indicating and Regulating Eq. E66894	XAPX	LR55532-1
	T700	Temperature-Indicating and Regulating Equipment for Hazardous Locations	XBDV E78208	LR55542-3
	LT_N4 GT_N4 PT_N4 PT_N7	XAPX Temperature-Indicating and Regulating Eq. Temperature-Indicating and Regulating Equipment for Hazardous Locations	 E66894 XBDV	LR55532-2 LR55532-4 LR55532-3 LR55542-2
Limit Control	XG5 on D400 & LDS	Pressure or Differential Switches for Air Natural Gas or LP-Gas and Nos. 1 & 2 Fuel Oils at Room Temperature	MFHX MH8449	
	XG6 on	Pressure Switches for Air, Natural Gas B400 & LPS and LP-Gas Nos. 1 and 2 Fuel oils	MFHX MH8449	N/A
	XG8 on B400 & LPS	Steam Limit Control Switch	MBPR MH8450	
Accessories	H.S.S. B4, D4 & L-Series	Snap Switches for use in Hazardous Locations	WSQX2 E85076	

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PRODUCT	FM FILE #	ELEMENTS	FM APPROVAL TYPE
B4 D4	22905 22905.02	20, 23, 24, 25, 26, 27, 28, 29, 50, 61, 62, 63	A) Pressure supervisory switches for fuel gas or fuel oil. B) Air flow interlocking switches for ventilating or combustion air.

NOTE:
Differential inches of water ranges not approved for fuel oil.

PRODUCT	FM FILE #	ELEMENTS	FMAPPROVAL TYPE
B7 D7	22905 22905.02	20, 23, 24, 25, 26, 27, 50, 61, 62, 63	B) Air flow interlocking switches for ventilating or combustion air.

PRODUCT	FM FILE #	ELEMENTS	FMAPPROVAL TYPE
B4	22905.1	64	A) Pressure supervisory switches for fuel gas or fuel oil. B) Air flow interlocking switches for ventilating or combustion air.

PRODUCT	FM FILE #	ELEMENTS	FM APPROVAL TYPE
B7	22905.1	64	B) Air flow interlocking switches for ventilating or combustion air.

PRODUCT	FM FILE #	ELEMENTS	FM APPROVAL TYPE
B4, D4	0Q1A3.	23, 32, 42	A) Pressure supervisory switches for fuel gas or fuel oil. B) Air flow interlocking switches for ventilating or combustion air.

NOTE:
Hermetically sealed switch elements for standard FM approval.

PRODUCT	FM FILE #	ELEMENTS	FM APPROVAL TYPE
B4, D4 LP_ & LD_	0Q8A7.	23, 32, 42 P, J, L	For use as air flow interlocking switches for fuel gas or fuel oil, and ventilating or combustion air in Class I Division 2 Groups A, B, C, D hazardous locations.

NOTE:
Hermetically sealed switch elements for hazardous locations.

PRODUCT	FM FILE #	ELEMENTS	FM APPROVAL TYPE
B4	0G6A2.	20, 24, 26 27, 61, 62, 63, 64	**WITH XG6 VARIATION** A) Pressure supervisory switches for fuel gas or fuel oil.

NOTE:
Pressure ranges from #15 to 600# only with Buna N and Viton diaphragms.

PRODUCT	FM FILE #	ELEMENTS	FM APPROVAL TYPE
LP_ & LD_	0N7A3. 2P9A3, AF	K, W, C, G, S, F, Y, H, N, R, P, J, L, M	Pressure supervisory switches for fuel gas or fuel oil. **WITH X2C VARIATION:** Same categories above with simulated DPDT operation.

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