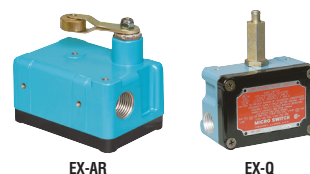


MICRO SWITCH™ Hazardous Location Limit Switches — EX Series

The smallest UL-listed housing available for use in hazardous locations. The compact size allow for multiple applications such as explosive gas/dust environments or valve and valve actuator.



Stock No.	Mfr.'s Type	Description	O.F.	P.T. (Inches)	D. T. (Inches)	O.T.	EACH			
							1-5	6-14	15-24	25+
70120103	EX-AR	SPDT, Roller Lever, CW Actuation	0.50-1.25 lbs.	0.249	0.007	90°	200.46	191.50	183.30	173.49
70120104	EX-Q	SPDT, Pin Plunger	3.0 lbs.	0.078	0.004	0.188"	211.64	202.16	193.49	185.54
70119222	EX-AR20	SPDT, No Lever	31.25"-oz.	0.219	0.007	90°	228.26	217.90	208.49	199.79
70119223	EX-AR68	SPDT, Side Rotary	0.50-1.25 lbs.	0.219	0.007	90°	246.01	234.86	224.66	215.32
70119224	EX-AR800	SPDT, Side Rotary	0.50-1.25 lbs.	0.219	0.007	90°	265.30	253.56	242.82	232.95
70118618	EX-AR30	SPDT, CW Roller	2.5 lbs.	0.065	0.007	25°	216.43	201.72	190.24	179.38
70119225	EX-N15	SPDT, Top Plunger	0.75-2.00 lbs.	0.078	0.004	—	227.59	218.27	209.62	201.69
70119226	EXA-AR	SPDT, Side Rotary	0.75-2.00 lbs.	0.219	0.012	25°	212.83	204.06	195.95	—
70119227	EXA-Q	SPDT, Top Plunger	2.0 lbs.	0.050	0.009	—	219.79	210.70	202.36	194.08
70119229	EXD-AR-3	SPDT, CW Roller	0.5-1.5 lb.	0.250	0.109	25°	315.91	300.87	287.18	274.74
70119230	EXD-Q-3	DPDT, Top Plunger	3.0 lbs.	0.219	0.012	25°	315.91	302.06	289.38	277.72

Features

- ▶ Non-Sparking Actuators
- ▶ Mounts from Four Sides
- ▶ Roller Arm Adjustable Through 360°
- ▶ ATEX Certified II 2GE Exd11B+Hz T6, IFCF Certified

Specifications

- ▶ 10 -20 A @ 125, 250, 480 VAC
- ▶ 1/2 A @ 125 VDC, 1/4 A @ 250 VDC
- ▶ 1/8 HP @ 125 VAC, 1/4 HP @ 250 VAC
- ▶ UL Recognized, File #E14274
- ▶ CSA Certified, File #LR57324
- ▶ Sealing: NEMA 1, 7 (Class I DIV I Groups C, D), 9 (Class I DIV I Groups E, F, G), (DIV II Groups C, D)
- ▶ Operating Temperature: -40°C to 71°C (-90°F to 160°F)

MICRO SWITCH™ Hazardous Location Limit Switches — LSX Series

LSX switches are for use either indoors or outdoors in hazardous atmospheres as they are a completely sealed explosion-proof device. An optional mounting plate provides the same tracking and mounting as the standard HDLS. The majority of HDLS operating heads and circuitry options are available on the LSX. Standard HDLS levers are used, but because of explosion-proof requirements, only nylon rollers or other non-sparking material can be selected. Plunger and cat whisker types listed in the LSX order guide are of non-sparking material. Application proven HDLS head seals are retained to seal the top of the LSX. The circular cover on the front is easily unscrewed to expose the switching elements for wiring or replacement. A screwdriver or bar used on the wrenching lugs extending from the front of the cover allows easy removal or tightening. An o-ring seal is located between the housing and cover. The LSX withstands pressure of an internal explosion and cools the exploding gases below the kindling temperature of the explosive atmosphere. Flame paths are provided by the cover-housing threads and an extended plunger between the switch cavity and head.



Stock No.	Mfr.'s Type	Head Style Actuator	Conduit	Contact Form	O.F.	P.T.	D. T.	O.T.	EACH			
									1-5	6-14	15-24	25+
70120043	LSXA3K	Side Rotary	*-14 NPT	SPDT	0.45 Nm	15°	5°	60°	183.56	175.45	168.02	161.20
70118674	LSXA4L	Side Rotary	*-14 NPT	DPDT	0.45 Nm	15°	7°	60°	238.60	227.41	217.25	207.91
70118675	LSXM4N	Side Rotary	*-14 NPT	DPDT, Center Neutral	0.45 Nm	18°	10°	57°	241.03	230.86	221.14	211.80
70119232	LSXC4L	Top Plunger	*-14 NPT	DPDT	17.8 N	0.070"	0.020"	0.190"	278.96	265.93	254.06	243.20
70119234	LSXV7L	Top Plunger	*-14 NPT	DPDT	17.8 N	—	—	—	222.13	211.75	202.30	193.66
70119235	LSXYNB4L	Side Rotary	*-14 NPT	DPDT	0.45 Nm	65°	35°	20°	302.20	288.08	275.22	263.46
70119497	LSXP7L	Side Rotary	*-14 NPT	DPDT	0.45 Nm	9°	4°	66°	199.36	191.68	186.13	180.88

Features

- ▶ Electrical: 10 Amp Thermal
- ▶ Single Pole: AC15, A600; DC13, R300
- ▶ Double Pole: AC15, B600; DC13, R300
- ▶ Variety of Heads and Non-Sparking Actuators
- ▶ Field Adjustability Matches Switch to Application
- ▶ Momentary, Maintained, or Center Neutral Action
- ▶ Choice of Silver or Gold Contacts
- ▶ 1/2 or 3/4 Inch Conduit Opening
- ▶ UL Listed (File #E61730) and CSA Certified (File #LR57327)
- ▶ NEMA/UL 1, 3, 4, 6, 7 (Class 1, Division 1 and 2) Groups B, C, D, 9 (Class 2, Division H2) Groups E, F, G, 13
- ▶ Operating Temperature: -12°C to 121°C (-10°F to 250°F), Optional -40°C (90°F)

MICRO SWITCH™ Hazardous Location Limit Switches — BX Series

The BX Series limit switch is similar to the LSX Series except it carries ATEX certification which is required for European applications. These enclosures also meet the European Hazardous Locations Designation: EExd IIC T6 category II 2 GD, SIRA 00ATEX 1037X. The entire series BX complies with the European Directive on Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres (94/9/EC) commonly referred to as the ATEX Directive. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN50014 1997 and EN50018 1994. BX products with conduit types 1/2-14 NPT, 3/4-14 NPT also meet the North American Hazardous Locations Designation: Class I, Groups B, C and D; Class II, Groups E, F and G comply with UL Standard: UL 894, CSA Standard: C22.2 No. 25-1966, C22.2 No. 30-M1986.

Features

- ▶ UL, CSA, ATEXv and IEC Ex
- ▶ Sealing — Applicable Portions of IP67 and NEMA 1, 3, 4, 6, 7, 9 and 13
- ▶ Durable Metal Housing Provides Enhanced Corrosion Resistance*
- ▶ Tracking Interchangeability with MICRO SWITCH ML-E1 and HDLS
- ▶ Electrical Features Similar to LSX Series
- ▶ 10 A Thermal
- ▶ Gold Contacts Available for Low Energy Switching
- ▶ Fluorocarbon Sealing Available
- ▶ -40°C Standard Low Temperature
- ▶ Ideal for Petrochemical and Marine Environment

*The standard BX listings have an aluminum die cast housing. BX2 listings are 316L stainless steel.

Stock No.	Mfr.'s Type	Head Style Actuator	Conduit	Contact Form	O.F.	P.T.	D. T.	O.T.	EACH			
									1-5	6-14	15-24	25+
70118676	BXA3K	Side Rotary	1/2"-14 NPT	SPDT	0.45 N	15°	7°	60°	217.37	207.40	198.27	189.97
70118677	BXA4L	Side Rotary	3/4"-14 NPT	DPDT	0.45 N	15°	—	60°	269.94	252.35	241.85	231.88
70119432	BX2C4L	Top Plunger	3/4"-14 NPT	DPDT	0.45 N	1.78 mm	0.51 mm	4.83 mm	786.77	745.35	703.94	673.36
70119433	BX2P4L	Side Rotary	3/4"-14 NPT	DPDT	0.45 N	9°	—	68°	900.54	853.12	805.73	770.73



BXA3K



BX2C4L



BX2P4L

MICRO SWITCH™ Hazardous Location Limit Switches — CX Series

CX switches are built especially for outdoor use in hazardous atmospheres. These enclosures are constructed to withstand the pressure of an internal explosion. Flame paths cool the exploded gases to a point less than the lowest safe operating temperature of the surrounding gas. O-ring seals make the enclosure weatherproof but are outside of required flame paths so explosion proof requirements are maintained.

Features

- ▶ Sealing — Applicable Portions of NEMA 1, 3, 4, 6, 7, 9 and 13
- ▶ Watertight and Dust-Tight for Outdoor Use
- ▶ 4-20 mA Analog Output Available
- ▶ UL Listed, File #E14274
- ▶ Analog UL File #E68247
- ▶ CSA Certified, File #LR57324
- ▶ Rugged Cast Aluminum Housing Accepts 3/4"-14 NPT Conduit
- ▶ Pretravel, Overtravel and Actuating Sequence Can Be Field Adjusted without Tools (All Switches Individually)
- ▶ Rotary Types Convert in Seconds to Clockwise, Counterclockwise or Two-Way Operation
- ▶ ATEX and IEC Ex Certified Versions Available



Stock No.	Mfr.'s Type	Head Style Actuator	Circuits	O.F.	R.F.	P.T.	D. T.	O.T.	Type	Supply Voltage	Current Rating (AC)	EACH			
												1-5	6-14	15-24	25+
70119237	11CX1	Side Rotary	1 Basic switch (SPDT)	1.25 Nm	0.113 Nm	15°	10°	90°	Short 104 mm	120/240/480 VAC or 125/250 VDC	15 A Ind.	277.27	265.41	254.57	244.54
70118678	11CX2	Side Rotary	2 Basic switches (each SPDT)	1.25 Nm	0.113 Nm	15°	10°	90°	Short 104 mm	120/240/480 VAC or 125/250 VDC	15 A Ind.	341.20	325.73	311.56	298.57
70119238	11CX12	Side Rotary	2 Basic switches (each SPDT)	0.50 Nm	—	15°	10°	90°	Short 104 mm	120/240/480 VAC or 125/250 VDC	15 A Ind.	344.34	327.01	311.35	297.13
70118679	24CX2	Side Rotary	2 Basic switches (each DPDT)	1.25 Nm	0.113 Nm	10°	30°	75°	Standard 145 mm	120/240 VAC or 125/250 VDC	10 A Ind.	562.54	—	—	—

Note: See HDLS limit switches for optional lever actuators. Call your Allied Sales Representative for details.