Honeywell



MICRO SWITCH™ Hazardous Area Switches LSX Series





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MICRO SWITCH[™] LSX hazardous area switches are designed for use in adverse environments. They are approved for use in hazardous locations and NEMA classified atmospheres because their rugged housings have integral flame paths. These flame paths force internal expanding gases to cool below external atmosphere ignition temperatures before they leave the housing. The LSX also features tracking interchangeability with MICRO SWITCH[™] BX Series Hazardous Area switches. An optional mounting plate provides the same tracking and mounting as the standard HDLS Series (heavy-duty limit switch).

The majority of HDLS operating heads and circuitry options are available for the LSX Series. The rotary actuated LSX series products are designed for use with levers that have non-sparking actuators due to the potentially hazardous environment. The other styles of LSX Series switches which are the plunger actuated and wobble actuated products incorporate an integral non-sparking actuator.

What makes our switches better?

- Industry-leading breadth of product
- Weather sealed to NEMA 1, 3, 4, 6, 13 Explosion proof to NEMA 7 (Class 1, Division 1 & 2, Groups B, C, D), NEMA 9 (Class 2, Division 1 & 2, Groups E, F, G)
- Extensive variety of actuation heads and multiple non-sparking actuators
- All metal drive train that offers consistent operating characteristics through a broad temperature range. Also lasts longer (without need for frequent adjustment) than drive trains with plastic parts





Features and Benefits

DESIGN FLEXIBILITY

MICRO SWITCH[™] LSX limit switches' field adjustability (CW-CCW operation, rotatable operating head) assists in matching the switch to the application. Available with momentary, maintained, sequential, or center neutral action.

All-metal drive train for consistent operation

UNIQUE DESIGN FEATURES

The head design is keyed for more **secure head-to-body retention** with the head indexable in any one of four positions 90° apart. Captive mounting screws in the heads help prevent the loss of screws during replacement or repositioning of the head. Self-lifting pressure plate terminals **save wiring time**.

Industry-leading breadth of products

WITHSTANDS MANY CAUSTIC ENVIRONMENTS

A die-cast zinc head and aluminum body make the LSX suitable for indoor and outdoor applications. A **diaphragm seal** between the head and body is designed to provide an extra measure of protection. Switches remain functional when exposed to many severe environments and caustic chemicals.

OPTIONAL SEALS

Standard seals are suitable for most applications, but **optional fluorocarbon or fluorosilicone seals** are available for many harsh chemical, high or low temperature environments.

DESIGNED TO CONTROL LOW-VOLTAGE DC APPLICATIONS

Hazardous area switches are available with a choice of **silver or gold-plated contacts** to handle a variety of electrical load requirements from low energy to power-duty control.

Potential Applications







GRAIN ELEVATORS

Monitors plugged grain conveyors, slide gate position, diverter valves, and leg positions

CONTROL VALVES AND ACTUATORS

Senses the "on" or "off" position of the valve

ON-SHORE DRILLING

Detects end of travel positions for extend and retract operations of drilling equipment

PIPELINES Monitors pig position and resulting pipeline health

PETROCHEMICAL AND CHEMICAL PLANTS Monitors the position of control valves, doors, and gates

WATER TREATMENT PLANTS

Detects control valve position

PAINT BOOTHS Door interlocks for sliding or hinged gates or doors

HAZARDOUS WASTE HANDLING

Often used as a valve position monitor

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MICRO SWITCH™ Hazardous Area Limit Switches

Figure 1. MICRO SWITCH™ LSX SERIES FEATURES AND OPTIONS

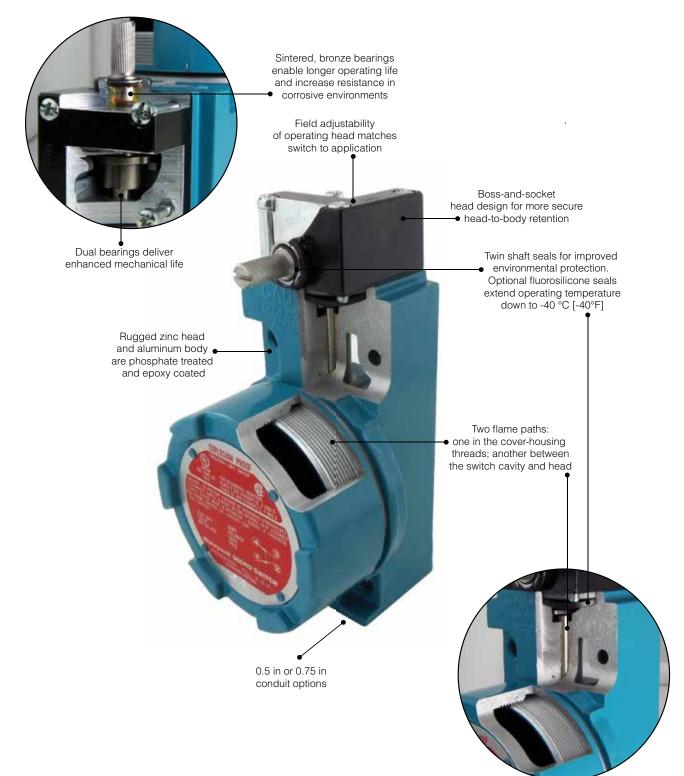


Figure 2. MICRO SWITCH™ LSX SERIES NOMENCLATURE

LSX Switch Type	J Head Style	3K Circuitry and Conduit Connection	Modification Code	- 7A Actuator Options
LSX Series Hazardous	A Side rotary; momentary	3E 1NO/1NC, gold contacts, 1/2-14NPT	CW rotation	Fixed roller, 1.5 in radius
Area Switch	B Top rotary; momentary	3K 1NO/1NC, 1/2-14NPT	2 CCW rotation	1A Fixed 0.75 in x 0.25 in nylon roller, 1.5 in radius
	C Top plunger, plain	3N SPNC direct acting, 1/2-14NPT	3 Head assembled with actuator to right side	1C Fixed 0.75 in x 0.25 in nylon roller, 1.5 in radius
	D Top plunger, roller	4K 1NO/1NC, 3/4-14NPT	4 Head assembled with actuator to left side	2 Adjustable, rollerless
	E Side plunger plain; momentary	4 2NO/2NC, 3/4-14NPT	5 Head assembled with actuator toward mounting surface	2A Adjustable, 0.75 in x 0.25 in nylon roller
	F Side plunger roller; momentary	4M 2NO/2NC, 3/4-14NPT, sequential operation	6 Roller perpendicular to mounting surface	Adjustable, 0.75 in x 0.25 in nylon roller
	Side rotary, momentary; low PT, low torque	4N ^{2NO/2NC, 3/4-14NPT, center neutral}	8 Roller on side plunger in vertical position	2J Adjustable, 1.0 in x 0.5 in nylon roller
	J Wobble stick	4S 2NO/2NC, gold contacts, 3/4-14NPT		2K Adjustable, 0.5 in x 0.25 in nylon roller
	K Whisker	4T 2NO/2NC, gold contacts, 3/4-14NPT, sequential operation		3E Yoke, 0.75 in x 0.25 in nylon roller
	Side rotary; sequential	4U 2NO/2NC, gold contacts, 3/4-14NPT, center neutral		3M Yoke, 0.75 in x 0.25 in nylon roller
	Side rotary; central neutral	7L 2NO/2NC, 1/2-14NPT		3S Yoke, 0.75 in x 0.25 in nylon roller, same side
	N Side rotary; maintained	7M 2NO/2NC, 1/2-14NPT, sequential operation		4 Hub only
	P Side rotary, momentary; low PT and DT	7N 2NO/2NC, 1/2-14NPT, center neutral		4M Hub rod, aluminum
	R Side rotary, momentary; low torque	7S 2NO/2NC, gold contacts, 1/2-14NPT		5 Offset, rollerless
	U Side rotary, low pre-travel	7T 2NO/2NC, gold contacts, 1/2-14NPT, sequential operation		5A Offset, 0.75 in x 0.25 in nylon roller
	V Top plunger, adjustable	7U 2NO/2NC, gold contacts, 1/2-14NPT, center neutral		5C Offset, 0.75 in x 0.25 in nylon roller
	W Side plunger, adjustable			7A Plastic wobble stick
Not all combination	s available. Please contact Hor	neywell for assistance.		8A Whisker, 5.5 in

9A Fixed, 0.75 in x 0.25 in nylon roller, open, 1.33 in radius

9C

Fixed, 0.75 in x 0.25 in nylon roller, closed, 1.33 in radius

To order high temperature versions, insert the additional letters \mathbf{Y} and \mathbf{C} in the appropriate places in the standard catalog listing, as shown below:

LSXA3K	standard, side-rotary plug-in switch					
LSX <u>Y</u> A <u>C</u> 3K	completely FC-sealed version of LSXA3K					

To order low temperature versions, insert the additional letters \mathbf{Y} and \mathbf{B} in the appropriate places in the standard catalog listing, as shown below:

LSXA3K	standard, side-rotary plug-in switch			
LSX <u>Y</u> A <u>B</u> 3K	low-temperature version of LSXA3K			

For more details, please see page 8.

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Table 1. Specifications

Characteristic	Parameter						
Product type	MICRO SWITCH™ hazardous area limit switches						
Actuators	side pin plunger side rotary top pin plunger - adjustable wobble - cat whisker	side roller plunger top pin plunger top rotary					
Circuitry	1NC 1NO SPDT snap action, double break 2NC 2NO DPDT snap action, double break 2NC 2NO DPDT snap action, double break, sequential 2NC 2NO DPDT snap action, double break, center neutral						
Electrical	10 A thermal single and double pole: AC15 A600, AC15 B600; DC13 R300 (see table on page 8)						
Housing material	zinc head, aluminum body						
Termination types	0.5 in - 14 NPT conduit 0.75 in - 14 NPT conduit						
Housing type	LSX non-plug-in						
Agency approvals and standards	UL, CSA						
Sealing	NEMA 1, 3, 4, 6, 13						
Hazardous area designations	NEMA 7 (Class 1, Division 1	& 2, Groups B, C, D), NEMA 9 (Class	2, Division 1 & 2, Groups E, F, G)				
Operating temperature*	standard: -12 °C to 121 °C [10 °F to 250 °F] optional: -40 °C to 121 °C [-40 °F to 250 °F]						
UNSPSC code	UNSPSC code 39122213						
UNSPSC commodity	39122213 Limit Switch						

 * Reference operating head styles on page 9 and 10 for exceptions.

MICRO SWITCH[™] LSX SERIES ELECTRICAL RATINGS: 10 A CONTINUOUS CARRY ac VOLTS; PILOT DUTY: AC15, A600

Electrical Rating	Circuitry	Vac	Amps at 0.35 Power Factor Make	Amps at 0.35 Power Factor Break	
AC15,	SPDT	120	60	6	
A600	DPDT	240	30	3	
		480	15	1.5	
			600	12	1.2

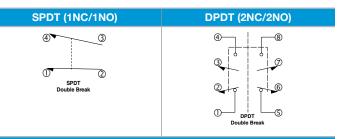
MICRO SWITCH[™] LSX SERIES ELECTRICAL RATINGS: dc VOLTS; PILOT DUTY: DC13, R300

Electrical Rating	Circuitry	Vdc	Make & Break Amps Inductive	Make & Break Amps Resistive
DC13,	SPDT	120	0.25	0.8
R300	DPDT	240	0.15	0.4

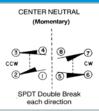
MICRO SWITCH $^{\rm TM}$ LSX limit switches are capable of the following low voltage dc loads

Circuitry	Vdc	Amps Inductive	Amps Resistive	
SPDT, DPDT	24	10	10	

SWITCH CONTACT STYLES, DOUBLE BREAK







NOTE: Same polarity each pole

TEMPERATURE LIMITS	Standard LSX				Low Temperature LSX (Fluorosilicone Sealed): Y_B				High Temperature LSX (Fluorocarbon Sealed)*: Y_C		
	Low Limit		High Limit		Low Limit		High Limit		Low Limit		High Limit
	-12 °C [10 °F]	-1 °C [30 °F]	93 °C [200 °F]	121 °C [250 °F]	-40 °C [-40°F]	-29 °C [-20 °F]	93 °C [200 °F]	121 °C [250 °F]	-12 °C [10 °F]	-1 °C [30 °F]	121 °C [250 °F]
LSXA - Side Rotary Momentary	•			•	•			•	•		•
LSXB - Top Rotary		•		•		•		•		•	•
LSXC - Top Plain Plunger	•		•		•		•		•		•
LSXD - Top Roller Plunger	•		•		•		•		•		•
LSXE - Side Plain Plunger	•		•		•		•		•		•
LSXF - Side Roller Plunger	•		•		•		•		•		•
LSXH - Side Rotary, Low Diff, Low Torque		•		•		•		•		•	•
LSXJ - Wobble Stick	•		•		•			•	•		•
LSXK - Cat Whisker	•		•			•		•	•		•
LSXL - Side Rotary, Sequence	•			•	•			•	•		•
LSXM - Side Rotary, Center Neutral		•		•	•			•		•	•
LSXN - Side Rotary, Maintained		•		•		•		•		•	•
LSXP - Side Rotary, Low Diff	•			•	•			•	•		•
LSXR - Side Rotary, Low Torque		•		•		•		•		•	•
LSXU - Side Rotary, 5º Low Pretravel	•			•							•
LSXV - Top Adjustable Plunger	•		•		•		•		•		•
LSXW - Side Adjustable Plunger	•		•		•		•		•		•

* For LSX application wherein the upper temperature limit is normally above 93 °C [200 °F], extended switch life can be obtained by using completely fluorocarbon-sealed switches rather than standard LSX.

SPECIAL OPTIONS

HIGH TEMPERATURE/CHEMICAL RESISTANT SWITCHES

Completely fluorocarbon (FC)-sealed switches have a full FC body gasket covering the switch cavity. Rotary types have an extra FC seal on the operating shaft, while plunger versions have FC boot seals. They are designed for use in applications where the environment includes fire-resistant synthetic fluids. In addition, the FC-sealed switches may be used with such industrial fluids as Cellulube, Fyrquell, Houghto-Safe, Pydraul, and other special cutting and hydraulic fluids. The additional FC seals also promote extended operating life for rotary-actuated LSX switches in applications where the temperatures are normally -12 °C to 121 °C [10 °F to 250 °F].

To order, insert the additional letters **Y** and **C** in the appropriate places in the standard catalog listing, as shown below:

LSXA3K	standard, side-rotary plug-in switch		
LSX <u>y</u> a <u>C</u> 3K	completely FC-sealed version of LSXA3K		

LOW TEMPERATURE SWITCHES

All forms of LSX limit switches are also available in low-temperature construction. Design features include fluorosilicone diaphragm, shaft seals, and external boot seal (where applicable).

To order, insert the additional letters **Y** and **B** in the appropriate places in the standard catalog listing, as shown below:

LSXA3K	standard, side-rotary plug-in switch
LSX <u>Y</u> A <u>B</u> 3K	low-temperature version of LSXA3K

MICRO SWITCH™ LSX SERIES OPERATING HEADS

SIDE ROTARY: Heads may be positioned in any one of four positions, 90° increments. All are momentary action except maintained head (LSXN Series).



LSXA - Standard: 60° minimum overtravel, 15° maximum pretravel, 5° (single pole) and 7° (double pole) maximum differential travel.

LSXR - Low operating torque: 60° minimum overtravel, 15° maximum pretravel, 0.19 Nm [1.7 in-lb] maximum operating torque.

LSXN - Maintained contact: Maintained on counterclockwise rotation and reset on clockwise rotation, and vice versa.

LSXP - Low differential: 68° minimum overtravel, 9° maximum pretravel, 3° (single pole) and 4° (double pole) maximum differential travel.

LSXH - Low torque, low differential travel: 68° minimum overtravel. Features low operating torque and narrow differential travel.

LSXL - Sequence action: 48° minimum overtravel. Delayed action between operation of two poles.

LSXM - Center neutral: 57° minimum overtravel. One pole operates on the clockwise rotation, and the other pole on the counterclockwise rotation.

LSXU - Low pretravel: 5° max. pretravel, 70° min. overtravel.

TOP ROTARY: Available levers provide greater versatility. Heads may be positioned in any one of four positions, 90° increments. All are momentary action.



LSXB: With 100° minimum overtravel. Various levers that fit side rotary shafts may be used on the top rotary shaft. Switch is suitable for use when increased overtravel is required.

MICRO SWITCH™ LSX SERIES OPERATING HEADS

TOP PLUNGERS: Available with 4,83 mm [0.19 in] minimum overtravel. Top pin plungers are offered in pin plunger, an adjustable plunger, and a roller plunger.



LSXC - Top pin plunger: A copper alloy plunger for in-line actuating motion. Oil-tight seals on plunger and between the operating head and housing are designed to keep out coolant, dust, and chips. Momentary action.



LSXD - Top roller plunger: A copper alloy roller plunger is adjustable to 90° angles to accept cam or slide operation from any of two directions. Boot seal on the plunger. Momentary action.



LSXV - Adjustable top pin plunger: A copper alloy adjustable plunger is designed to simplify the application and decreases installation time. The operating points of the switch can be adjusted from 65,66 mm to 72,0 mm [2.585 in to 2.535 in]. Seals are the same as the pin plunger. Momentary action.

WOBBLE LEVER ACTUATING HEADS: Heads come with either a Delrin[®] plastic rod or a copper alloy cat whisker. Any movement of the lever (except pull) will actuate the switch. **SIDE PLUNGERS:** Made of non-sparking copper alloy. Available with 4,83 mm [0.19 in] minimum overtravel. Side plungers are offered in plain plunger, an adjustable pin plunger, and a roller plunger.





LSXE - Side pin plunger: A copper alloy plunger for actuating motion inline with the plunger travel. Actuating head may be rotated in any of four positions, 90° apart. A boot seal on the plunger and a gasket seal between the head and housing is designed to keep out coolant, dust, and chips. Momentary action.

LSXF - Side roller plunger: A copper alloy roller plunger fits close quarters under cams and slides. The head may be rotated in any of four positions, 90° apart. <u>The</u> <u>roller can be turned vertical or horizontal to</u> <u>the switch</u>. Boot seal on plunger. Momentary action.

LSXW - Adjustable side pin plunger: Has the same features of the side plain

plunger plus the means to adjust the operating points of the switch from 41 mm to 47,4 mm [1.615 in to 1.865 in]. Momentary action.



LSXJ - Plastic rod: Recommended where possible scratching or marring by the actuator is to be avoided. LSXK - Cat whisker: Copper alloy actuator designed for low operating force applications.

SIDE ROTARY • MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

						idard XA)	Low Dif (LS	ferential XP)	Low T (LS)	
				Description	Standard		Low differential travel		Low operating torque	
					SPDT	DPDT	SPDT	DPDT	SPDT	DPDT
					Snap Action 1NO/1NC 30 - 0 4 10 - 0 2	Snap Action 2NO/2NC 30 - 04 10 - 02 70 - 08	Snap Action 1NO/1NC 30	Snap Action 2NO/2NC 30 - 0 4 10 - 0 2 70 - 8	Snap Action 1NO/1NC 30	Snap Action 2NO/2NC 30
				Contact closed ■ Contact open □	0° → 0° → 10° 15° → 10° 75° ↓ ↑	76 → 8 50 ∞6 9-9/27-1 15 → 6 15 → 7 15 → 7 1	75° € €	70 50 50 90 90 90 10 10 10 10 10 10 10 1	0° [№] [№] [№] [№] [№] 15° [№] [№] [№] [№] 75° [№] [№] [№]	7 5 6 9 9 9 9 9 9 9 9 9 9
			1.	Pretravel	15° max.		9° max.		15° max.	
٦	四十 22			Differential travel	5° max.	7° max.	3° max.	4° max.	5° max.	7° max.
	California	8 y		Overtravel	60° min.		66° min.		60° min.	
				Operating torque	0,45 Nm [4	in-lb] max.	0,45 Nm [4 in-lb] max.		0,19 Nm [1.7 in-lb] max.	
				Action	Momentary, CW, & CCW (Spring return)					
				Operating temperature range ²	-12 °C to 121 °C [10 °F to 250 °F]				-1 °C to 121 °C [30 °F to 250 °F]	
		Contacts	Conduit (I	NPT)						
F	(4) (3)	Silver	0.5 in		LSXA3K		LSXP3K		LSX	R3K
SPDT	D 2 SPDT	Silver	0.75 in		LSX	A4K	LSX	P4K	LSXR4K	
	Double Break	Gold ¹	0.5 in		LSX	A3E	LSXP3E		LSX	R3E
		Silver	0.5 in		LSXA7L		LSXP7L		LSXR7L	
рррт		Silver	0.75 in		LSX	A4L	LSXP4L		LSXR4L	
	DPDT 5	Gold ¹	0.75 in		LSXA4S		LSXP4S		LSXR4S	

¹ Gold-plated contacts

² Completely fluorocarbon sealed switches are preferred for use in temperatures above 93 °C [200 °F] For low temperature or high temperature versions, see page 9.

SIDE ROTARY • MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

					Maintained Co	ontact (LSXN)	Low Torqu	ıe (LSXH)	
				Description	Maintained, 2	-position Std.	Momentary,	low torque	
					SPDT	DPDT	SPDT	DPDT	
				Contact closed ■ Contact open □	Maintained Contact 3 o 4 1 o 2 0° 2 0° 2 25°	Maintained Contact $3 \circ - \circ 4$ $1 \circ - \circ 2$ $7 \circ - \circ 6$ $9 \circ 1/7 \circ 2$ $7 \circ - \circ 6$ $9 \circ 1/7 \circ 7$ $0^{\circ} \circ 6$ $0^{\circ} \circ 1/7 \circ 7$ $0^{\circ} \circ 6$ $0^{\circ} \circ 1/7 \circ 7$ $0^{\circ} \circ 1/7 \circ 1$	Snap Action 1NO/1NC 3 4 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 6 3 7 3	Snap Action 2NO/2NC $3 \circ - \circ 4$ $1 \circ - \circ 9$ $7 \circ - \circ 8$ $5 \circ 9 \cdot 9 \cdot 7 \circ 6$ $9 \circ 7 \cdot 6 \circ 9 \cdot 9 \cdot 7 \circ 6$ $9 \circ 7 \cdot 7 \circ 6$ $9 \circ 7 \circ 7 \circ 6$	
4		4	1 and	Pretravel	65° r	nax.	9° max.		
			111 -	Differential travel	40° max.		3° max.	4° max.	
				Overtravel	20° min.		66° min.		
		16		Operating torque	0,45 Nm [4	in-lb] max.	0,19 Nm [1.7 in-lb] max.		
				Action	Mainta	ained	Momentary, CW, & CCW (Spring return		
				Operating temp. range ²	-1 °C to 121	°C [30 °F to 250 °F]	(for low temp or high temp versions, see page 9)		
		Contacts	Conduit (I	NPT)					
	()	Silver	0.5 in		LSXN3K		LSXH3K		
SPDT	0 2	Silver	0.75 in		LSX	N4K	LSX	H4K	
	SPDT Double Break	Gold ¹	0.5 in		LSX	N3E	LSX	H3E	
		Silver	0.5 in		LSX	N7L	LSXH7L LSXH4L		
ррот		Silver	0.75 in		LSX	N4L			
	①DPDT⑤ Double Break	Gold ¹	0.75 in		LSX	N4S	LSX	H4S	

¹ Gold-plated contacts ² Completely fluorocarbon sealed switches are preferred for use in temperatures above 93 °C [200 °F] For low temperature or high temperature versions, see page 9.

SIDE ROTARY ● MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

					Center Neutral (LSXM)	Sequence Action (LSXL)
	Description		Description	Center Neutral (Pole 1 operates CCW; Pole 2 operates CW)	Sequential (Pole 1 operates before Pole 2, either CW, CCW, or both)	
					DPDT	DPDT
				Contact closed ■ Contact open □	$CCW \xrightarrow{18^{\circ}}_{18^{\circ}} \xrightarrow{75^{\circ}}_{6} \xrightarrow{1}_{6} \xrightarrow{75^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}}} \xrightarrow{0^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}}} \xrightarrow{0^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}$	0° 15° 25° ↓ 75° ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
4	Et. Sa a a	1		Pretravel	18° max.	1 st : 15°; 2 nd : additional 10°
	and and	Differential travel		Differential travel	10° max.	each pole: 5°
			e - 1	Overtravel	57° min.	48° min.
		16		Operating torque	0,45 Nm [4 in-lb] max.	0,45 Nm [4 in-lb] max.
				Action	CW & CCW ((Spring return)
				Operating temp. range ²	-1 °C to 121 °C [30 °F to 250 °F]	-12 °C to 121 °C [10 °F to 250 °F]
		Contacts	Conduit (I	NPT)		
	@®	Silver	0.5 in		LSXM7N	LSXL7M
Ы		Silver	0.75 in		LSXM4N	LSXL4M
DPDT		Gold ¹	0.5 in		LSXM7U	LSXL7T
	Double Break		0.75 in		LSXM4U	LSXL4T

¹ Gold-plated contacts

² Completely fluorocarbon sealed switches are preferred for use in temperatures above 93 °C [200 °F] For low temperature or high temperature versions, see page 9.

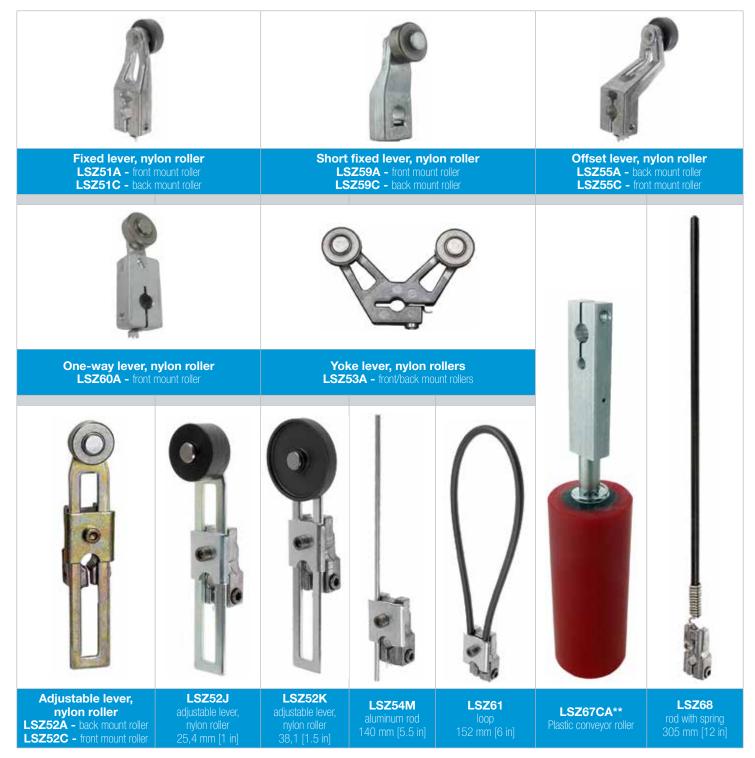
					Standard (LSXB)				
				Description	Star	ndard			
					SPDT	DPDT			
					Snap Action 1NO/1NC	Snap Action 2NO/2NC			
					30	3004			
						5 ο ο 6 φ φ φ φ φ			
					25°				
	CALIFICIT			Contact closed ■ Contact open □	135° ↓ 介	25° - 13°			
		1 242 P		Pretravel	25° max.				
			1	Differential travel	10° max.	12° max.			
		11.11		Overtravel		° min.			
	A Lo		()	Operating torque	0,25 Nm	[2.5 in-lb]			
				Action	Momentary, CW, &	CCW (Spring return)			
	Concerne Series	CALLAR SOL		Operating temp. range ¹	-1 °C to 121 °C [30 °F to 250 °F]	(for low temp or high temp versions, see page 9)			
		Contacts	Conduit (N	IPT)					
F	٩ • 3	Silver	0.5 in		LSXB3K	-			
SPDT	SPDT Double Break	Silver	0.75 in		-	LSXB4L			

TOP ROTARY • MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

 1 Completely fluorocarbon sealed switches are preferred for use in temperatures above 93 °C [200 °F] For low temperature or high temperature versions, see page 9.

Table 2. Common levers for use with MICRO SWITCH™ LSX Rotary Switches*

Levers for use with side-rotary-actuated switches are available in a wide choice of sizes and materials. The most common listings are shown below. Rollers may be on either side of the lever to best match the external actuating mechanism.



* Non-sparking rollers and actuators must be used in hazardous areas.

** May require orientation of switch and lever to enable gravity to help restore switch's free position.

Table 3. LSX Series Lever Order Guide

	Catalog Listing	Material	Roller Dia. mm [in]	Roller Width mm [in]	Roller Mounting
	Fixed 38,1 r	nm [1.5 in] rad			
-	LSZ51	Rollerless	n/a	n/a	n/a
	LSZ51A	Nylon	19 [0.75]	6,35 [0.25]	Front
TRANK W	LSZ51C	Nylon	19 [0.75]	6,35 [0.25]	Back
1716	LSZ51F	Nylon	25,4 [1.0]	12,7 [0.50]	Front
/// m	LSZ51G	Nylon	38,1 [1.5]	6,35 [0.25]	Front
<u>ACM</u>	LSZ51J	Nylon	25,4 [1.0]	12,7 [0.50]	Back
and the	LSZ51M	Nylon	19 [0.75]	31,7 [1.25]	Back
1	LSZ51P	Nylon	19 [0.75]	12,7 [0.50]	Front
T	LS2Z51A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front
and the	LS2Z51C (sst)	Nylon	19 [0.75]	6,35 [0.25]	Back
1	LS2Z51E (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Front
	LS2Z51F (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Back
		38,1 mm [1.5 i			
-	LSZ52	Rollerless	n/a	n/a	n/a
0	LSZ52A	Nylon	19 [0.75]	6,35 [0.25]	Back
	LSZ52C	Nylon	19 [0.75]	6,35 [0.25]	Front
	LSZ520	Nylon	19 [0.75]	33,0 [1.30]	Front
a had by	LSZ52J	Nylon	25,4 [1.0]	12,7 [0.50]	Front
10	LSZ52J LSZ52K	Nylon			
		J .	38,1 [1.5]	6,35 [0.25]	Front
	LSZ52M	Nylon	50,8 [2.0]	6,35 [0.25]	Front
	LSZ52N	Nylon	19 [0.75]	12,7 [0.50]	Front
	LS2Z52A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front
	LS2Z52C (sst)	Nylon	19 [0.75]	6,35 [0.25]	Back
Among State	LS2Z52E (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Front
	LS2Z52F (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Back
		mm [1.5 in] ra			
0 0	LSZ53A	Nylon	19 [0.75]	6,35 [0.25]	Front/Back
	LSZ53E	Nylon	19 [0.75]	6,35 [0.25]	Back/Front
N	LSZ53M	Nylon	19 [0.75]	31,7 [1.25]	Back/Front
1000	LSZ53S	Nylon	19 [0.75]	6,35 [0.25]	Back/Back
	Rod				
	LSZ54	Hub only	n/a	n/a	n/a
1					
	LSZ54M	Alum, 140 mm [5.5 in]	Ø 3,2 [Ø 0.125]	n/a	n/a
			[p official		
	LSZ54N	Stainless, 330 mm [13 in]	Ø 3,2 [Ø 0.125]	n/a	n/a
	LSZ54N LSZ54P	Stainless, 330	Ø 3,2	n/a n/a	n/a n/a
0		Stainless, 330 mm [13 in] Plastic rod,	Ø 3,2 [Ø 0.125] Ø6,85		
	LSZ54P LSZ54W	Stainless, 330 mm [13 in] Plastic rod, 305 mm [12 in] Plastic rod, 183 mm	Ø 3,2 [Ø 0.125] Ø6,85 [Ø 0.27] Ø6,85 [Ø 0.27]	n/a	n/a
	LSZ54P LSZ54W	Stainless, 330 mm [13 in] Plastic rod, 305 mm [12 in] Plastic rod, 183 mm [7.2 in]	Ø 3,2 [Ø 0.125] Ø6,85 [Ø 0.27] Ø6,85 [Ø 0.27]	n/a	n/a
	LSZ54P LSZ54W Offset - 38,	Stainless, 330 mm [13 in] Plastic rod, 305 mm [12 in] Plastic rod, 183 mm [7.2 in] 1 mm [1.5 in] Rollerless	0 3.2 (Ø 0.125) Ø6.85 (Ø 0.27) Ø6.85 (Ø 0.27]	n/a n/a n/a	n/a n/a
	LSZ54P LSZ54W Offset - 38, LSZ55 LSZ55A	Stainless, 330 mm (13 in) Plastic rod, 305 mm (12 in) Plastic rod, 183 mm (7.2 in) 1 mm [1.5 in] Rollerless Nylon	0 3.2 (Ø 0.125) Ø6.85 (Ø 0.27) Ø6.85 (Ø 0.27] radius n/a 19 [0.75]	n/a n/a n/a 6,35 [0.25]	n/a n/a
	LSZ54P LSZ54W Offset - 38, LSZ55	Stainless, 330 mm [13 in] Plastic rod, 305 mm [12 in] Plastic rod, 183 mm [7.2 in] 1 mm [1.5 in] Rollerless	0 3.2 (Ø 0.125) Ø6.85 (Ø 0.27) Ø6.85 (Ø 0.27]	n/a n/a n/a	n/a n/a n/a Back

	Catalog Listing	Material	Roller Dia. mm [in]	Roller Width mm [in]	Roller Mounting
	Short fixed	- 33,02 mm [1	.3 in] radiu	ıs	
	LSZ59A	Nylon	19 [0.75]	6,35 [0.25]	Front
3	LSZ59C	Nylon	19 [0.75]	6,35 [0.25]	Back
	One-way ro	ller lever			
	LSZ60A	Nylon	19 [0.75]	6,35 [0.25]	Front
	Flexible loop	p			
\wedge	LSZ61	Ø 4,8 [Ø 0.19] Nylatron	152 mm [6 i	n] flexible loop	
	LSZ618	Ø 4,8 [Ø 0.19] Nylatron	241 mm [9.5	5 in] flexible loo	p
V	LSZ54	Hub only	n/a	n/a	n/a
	Spring rod				
	LSZ68	Delrin rod, 305 mm [12 in]	Ø 6,35 [0.25]		
	LSZ617	Delrin rod, 406 mm [16 in]	Ø 6,35 [0.25]	n (6 in) flexible loop n (9.5 in) flexible loop n (9.7 in)	
	LSZ686	Delrin rod, 152 mm [6 in]	Ø 6,35 [0.25]	n/a	n/a
	Rubber rolle	er levers			
	LSZ51Y 38,1 [1.5] radius (standard)	Rubber	50 [2.0]	12,7 [0.5]	front
	LSZ55Y 38,1 [1.5] radius (offset)	Rubber	50 [2.0]		
-	LSZ52Y 38,1 to 89 [1.5 to 3.5] radius (adjustable)	Rubber	50 [2.0]	12,7 [0.5]	front
	Plastic rolle	r levers			
	LSZ67AA (conveyor)*	Plastic	38,1 [1.5]	96,5 [3.8]	n/a

 * May require orientation of switch and lever to enable gravity to help restore switch to free position.

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7.

TOP PLUNGER • MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

All top plungers are momentary action.

				Plain (LSXC)	Roller	(LSXD)	Adjustab	le (LSXV)
	Description		Description	Top plain plunger for in-line operating motion		Top roller plunger – can be set at 90° increments to accept cam or slide actuation		Adjustable top plain plunger simplifies insta tion since operating pc can be adjusted from 65,66 mm min.; 72,0 mm max. [2.585 in min; 2.835 in max.]	
				SPDT	DPDT	SPDT	DPDT	SPDT	DPDT
			Contact closed ■ Contact open □	Snap Action 110(11)C 30	Snap Action 28/0/28/C 30 - C + 0 + 0 10 - C + 0 + 0 9 - C + 0 + 0 1 + 1 + 1 + 0 10.050 in] (0.050 in] (0.050 in] (0.050 in]	Snap Adian INOINC 30-C+04 10-C+02 0 in 0.55 in 1,4 mm 1,4 mm 1005 in 0.055 in	Snap Action 2NO/SNC 30 - 64 10 - 70 - 68 50 - 70 - 68 50 - 70 - 70 - 68 50 - 70 - 70 - 70 - 70 - 70 - 70 - 70 -	Snap Action 1001NC 30	Snap Action 2NORCG 30-P-04 10-y-02 70-D-08 50-y-08 0 0 m 0 0 m 0 0 0 m 0 0.55 m 0.050 m 0.050 m 0.050 m
			Pretravel		1	1,78 mm	[0.07 in]	1	
	AND THE REAL PROPERTY OF		Differential travel	0,38 mm [0.015 in]	0,51 mm [0.02 in]	0,38 mm [0.015 in]	0,51 mm [0.02 in]	0,38 mm [0.015 in]	0,51 mm [0.02 in]
	A REAL PROPERTY OF	15	Overtravel			4,83 mm	[0.19 in]		
			Operting force			17,8 N [4	lb] max.		
			Operating point	58,55 mm [2.305 in :	±0,76 mm ±0.030 in]	68,58 mm [2.70 in ±	±1,02 mm ₌0.040 in]	65,66 m 72,0 mr [2.585 in min; 2	m max.
			Operating temp. range ²	-12 °	C to 93 °C [10	°F to 200 °F] (f	or low temp or high	temp versions, see p	age 9)
	Contacts	Conduit (N	IPT)						
(1)	Silver	0.5 in		LSX	СЗК	LSX	D3K	LSX	V3K
D 2 SPDT	Silver	0.75 in		LSX	C4K	LSXD4K		LSXV4K	
Double Break	Gold ¹	0.5 in		LSX	C3E	LSX	D3E	LSX	V3E
	Silver	0.5 in		LSX	C7L	LSX	D7L	LSX	V7L
	Silver	0.75 in		LSX	C4L	LSXD4L		LSXV4L	
DPDT	Gold ¹	0.75 in		LSX	C4S	LSXD4S		LSXV4S	

SPDT

ррот

 1 Gold-plated contacts 2 Completely fluorocarbon sealed switches are preferred for use in temperatures above 93 °C [200 °F] For low temperature or high temperature versions, see page 9.

SIDE PLUNGER • MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

All side plungers are momentary action. Heads may be positioned to accept actuation from any of four directions, 90° apart.

		Plain	(LSXE)	Roller (LSXF) Adjustable (LS			le (LSXW)	
	Description	Side plain plunger for in- line operating motion Side roller plunger be set at 90° increa to accept cam or actuation		° increments am or slide	s plunger simplifies insta			
		SPDT	DPDT	SPDT	DPDT	SPDT	DPDT	
	Contact closed ■ Contact open □	Snap Action 1NO(1NC 30-04 10-02 30-04 10-02 50-06 9 7 7 9 1.4 mm [0.055 in] 1.4 mm [0.055 in] 7.36 mm [0.29 in] 7.36 mm [0.29 in] 1.4 mm [0.20 in] 1.4 mm [0.20 in] 1.4 mm [0.20 in] 1.4 mm [0.20 in]						
	Pretravel			[0.10 in]				
	Differential travel	1,14 mm [0.045 in]						
	Overtravel			4,83 mm				
Operting force Operating point		26,7 N [6 lb] max. 33,02 mm ±0,76 mm [1.300 in ±0.030 in] 44,07 mm ±1,02 mm [1.735 in ±0.04 in]			41 mm min.; 47,37 mm max. [1.615 in min.; 1.865 in max.]			
	Operating temp. range ²	-12 °	°C to 93 °C [10	°F to 200 °F] (f	or low temp or high t	emp versions, see p	age 9)	
duit (NPT)							
5 in		LSX	E3K	LSX	F3K	LSX	LSXW3K	
'5 in		LSXE4K		LSXF4K		LSXW4K		
5 IN		LSX	.E4K	LSA	F4K	LSX	-	
in			E4K E3E		F4K F3E		-	
		LSX			F3E	LSX	W4K	

LSXE4S

LSXF4S

LSXW4S

DPDT Double Break

4

1

4

2 1)- SPDT Double Break

SPDT

DPDT

 1 Gold-plated contacts 2 Completely fluorocarbon sealed switches are preferred for use in temperatures above 93 °C [200 °F]

0.75 in

For low temperature or high temperature versions, see page 9.

Contact

Silver

Silver

Gold¹

Silver

Silver

Gold¹

3

2

8

-(5)

MICRO SWITCH™ Hazardous Area Limit Switches

WOBBLE ● MICRO SWITCH[™] LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

			LSXJ Series 7A Actuator		LSXK Series 8A Actuator			
		Description			lever (wobble stick)	Cat whisker actuator for low operatin		
				Deinit plastic rou			plications	
				SPDT	DPDT	SPDT	DPDT	
					Snap 2NC	Action D/2NC		BA Action
					3 0	0 4	3 o	0/2NC
					70	0-08	10-	
		-			50- φα		70	-08
					00 3.41 3.41	1-2/	0 3-4/7-5	3-4/7-6
		C. NO.			12°	8°		450
		11.					25°	15-
				LSJ1A-7A LSK1A- - Plastic 8A - Cat				
	d -		2	rod whisker				
	100	10		Contact closed 🔳	75°		75° 上	
			Y.	Contact open 🗆		①		
		22		Actuator length	152,4 m		-	in] copper alloy
	Constanting of the local division of the loc		F	Pretravel	25,4 mn			n [2.0 in]
			7	Operating force		n [10 oz]		m [5 oz]
		Contacts	Conduit (N	Operating temp. range ²	-12 °C to 93	8 °C [10 °F to 200 °F]	for low temp or high temp vers	sions, see page 9)
		Contacts	Conduit (N	IPT)				
	3	Silver	0.5 in		LSXJ	3K-7A	LSXK	3K-8A
		Silver	0.75 in		LSXJ4	4K-7A	LSXK	4K-8A
	SPD1 Double Break	Gold ¹	0.5 in		LSXJ	3E-7A	LSXK	3E-8A
	@®	Silver	0.5 in			7L-7A	ICVM	7L-8A
	3	Silver	0.5 11		LONJ		LOAN	
ברב		Silver	0.75 in		LSXJ	4L-7A	LSXK	4L-8A
	① DPDT ⑤ Double Break	Gold ¹	0.75 in		LSXJ	4S-7A	LSXK	4S-8A

¹ Gold-plated contacts

SPDT

DPDT

² Completely fluorocarbon sealed switches are preferred for use in temperatures above 93 °C [200 °F]

For low temperature or high temperature versions, see page 9.

REPLACEMENT CONTACT BLOCKS

Circuitry	Replacement Contact Block
Single pole	LSXZ3K
Double pole	LSXZ3L
Sequence or central neutral	LSXZ3M

REPLACEMENT HEADS FOR STANDARD LSX SWITCHES

Switch Type	Catalog Listing/Operating Head Only
LSXA	LSXZ1A
LSXB	LSXZ1B
LSXC	LSXZ1C
LSXD	LSXZ1D
LSXE	LSXZ1E
LSXF	LSXZ1F
LSXH	LSXZ1H
LSXJ	LSXZ1JGA
LSXK	LSXZ1KHA
LSXL	LSXZ1L
LSXM	LSXZ1M
LSXN	LSXZ1N
LSXP	LSXZ1P
LSXR	LSXZ1R
LSXU	LSXZ1U
LSXV	LSXZ1V
LSXW	LSXZ1W

ADAPTER PLATE

Catalog listing LSXZ4022 adapter plate enables the NEMA-rated, explosion-proof LSX Series to be mounted on existing HDLS mounting holes. The LSX has a recessed back into which the adapter plate fits and mounts, using two screws (furnished)



ASSEMBLY MODIFICATIONS

Momentary action rotary switches can be furnished in other than the normal assembled conditions. To specify modifications, add the numbers shown below to the catalog listings. Modification number suffixes are:

- 1 Clockwise actuation only
- 2 Counterclockwise actuation only
- **3** Shaft to right of switch front
- 4 Shaft to left of switch front
- 5 Shaft to back of switch

For example,

Catalog listing LSXA3K**23** is a LSXA3K switch adjusted for counterclockwise actuation only. The operating shaft is to the right side of the switch when viewing it from the front (label side). No lever.

PLUNGER ASSEMBLY MODIFICATIONS

Add the following modification numbers to the catalog listing in the plunger switch:

- **3** Side plunger to right of switch front
- 4 Side plunger to left of switch front
- 5 Side plunger to back of switch
- 6 Roller on top plungers perpendicular to mounting surface
- 8 Roller on side plungers in vertical position

For example,

Catalog listing LSXF3K3 is a LSXF3K switch with the side roller plunger to the right side.

Downloaded from Arrow.com.

Figure 3. MICRO SWITCH™ LSX SERIES PRODUCT REFERENCE DIMENSIONS • mm [in] SIDE ROTARY - HEAD CODES: A, H, L, M, N, P, Q, R, AND U

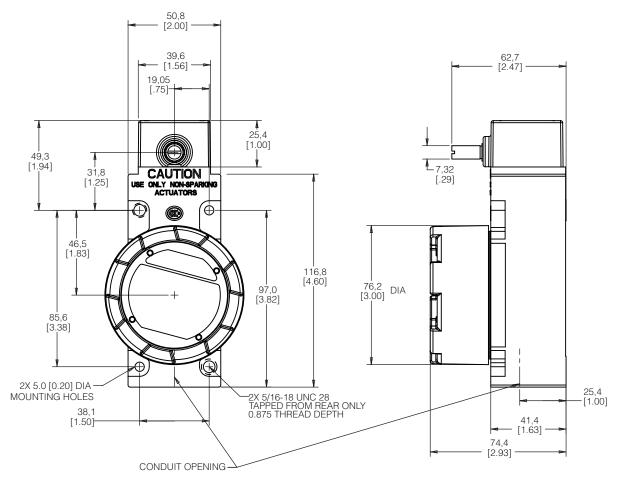


Figure 4. MICRO SWITCH[™] LSX SERIES WOBBLE STICK, HEAD CODE J • mm [in]

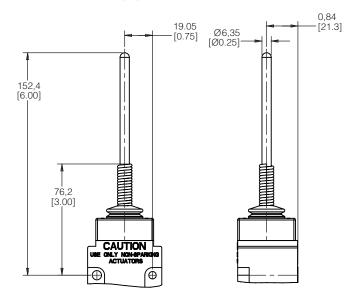


Figure 5. MICRO SWITCH[™] LSX SERIES CAT WHISKER WOB-BLE, HEAD CODE K • mm [in]

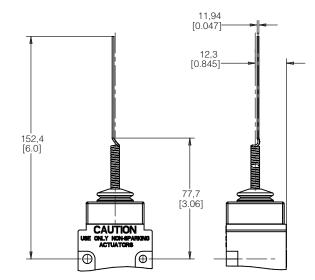
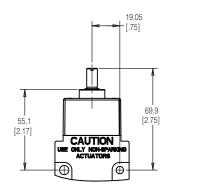


Figure 6. MICRO SWITCH[™] LSX SERIES TOP ROTARY, HEAD CODE B • mm [in]



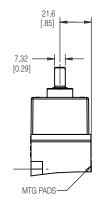


Figure 8. MICRO SWITCH™ LSX SERIES TOP ROLLER PLUNGER, HEAD CODE D • mm [in]

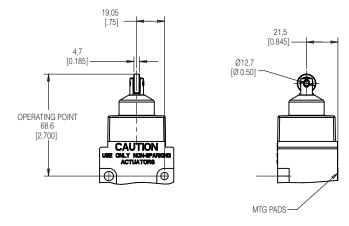


Figure 10. MICRO SWITCH™ LSX SERIES ADJUSTABLE TOP PIN PLUNGER, HEAD CODE V • mm [in]

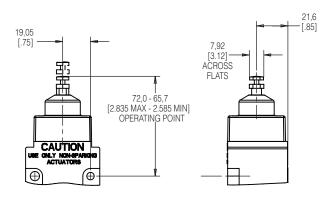


Figure 7. MICRO SWITCH™ LSX SERIES TOP PIN PLUNGER, HEAD CODE C • mm [in]

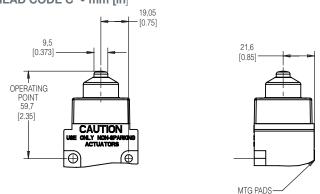


Figure 9. MICRO SWITCH[™] LSX SERIES SIDE PLUNGER, HEAD CODE E • mm [in]

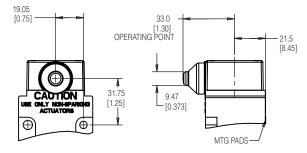


Figure 11. MICRO SWITCH™ LSX SERIES SIDE ROLLER PLUNGER, HEAD CODE F • mm [in]

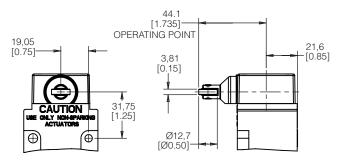
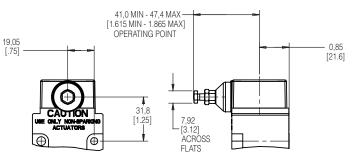


Figure 12. MICRO SWITCH™ LSX SERIES ADJUSTABLE SIDE PIN PLUNGER, HEAD CODE W • mm [in]



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This datasheet supports the following MICRO SWITCH™ LSX Series Hazardous Area Limit Switches

		-		
LSXA3E	LSXC4S	LSXN3K-1A	LSXYAB4L	LSXZ23EB
LSXA3E-1A	LSXC7L	LSXN3K-4M	LSXYAB4L-1A	LSXZ23K
LSXA3E-2K	LSXD3E	LSXN4K	LSXYAB4L4	LSXZ23KB
LSXA3E1	LSXD3K	LSXN4L	LSXYAB4L5-1A	LSXZ23N
LSXA3E24-1A	LSXD3K6	LSXN4L-1A	LSXYAB7L	LSXZ23NB
LSXA3E24-TA LSXA3K	LSXD4K	LSXN4L-2C		
			LSXYAC3K	LSXZ24K
LSXA3K-1A	LSXD4L	LSXN4L-3S	LSXYAC3K-2C	LSXZ24KB
LSXA3K-1C	LSXD4L6	LSXN4L4	LSXYAC4L	LSXZ24L
LSXA3K-2C	LSXD7L	LSXN4S-3S	LSXYBB3K	LSXZ24LB
LSXA3K-2J	LSXE3K	LSXN7L	LSXYBB4L	LSXZ24M
LSXA3K-2K	LSXE3K3	LSXN7L-2A	LSXYCB3K	LSXZ24MB
LSXA3K-4M	LSXE3K4	LSXP3E	LSXYCB4L	LSXZ24N
LSXA3K-5C	LSXE4K	LSXP3K	LSXYCC3K	LSXZ24NB
LSXA3K1	LSXE4L	LSXP3K-1A	LSXYCC4L	LSXZ24S
LSXA3K1-1C	LSXF3E	LSXP3K-1C	LSXYDB3K	LSXZ24SB
LSXA3K1-2C	LSXF3K	LSXP3K-5C	LSXYDB4L	LSXZ24SC
LSXA3K4-4M	LSXF3K5	LSXP3K1	LSXYDC7L	LSXZ24T
LSXA3K5	LSXF3K8	LSXP3K3	LSXYEB3K	LSXZ24TB
LSXA3K5-1A	LSXF4L	LSXP3K3-1A	LSXYEC3K	LSXZ24TC
LSXA3K5-4M	LSXF4L5	LSXP3K5-1A	LSXYFB3K	LSXZ24U
LSXA3K5-5C	LSXF7L	LSXP4K	LSXYHB3K-2C	LSXZ24UB
LSXA3N	LSXF7L5	LSXP4K-2C	LSXYJB3K-7A	LSXZ24UC
LSXA4K	LSXH3K	LSXP4L	LSXYLB4M	LSXZ2400
LSXA4K-1A	LSXH3K-2C	LSXP4L-2C	LSXYMB4N	LSXZ27LB
LSXA4K-2C	LSXH3K-4M		LSXYMB4N-1A	
	LSXH3K3-2C	LSXP4L3-2C		LSXZ27N
LSXA4K-2J		LSXP7L	LSXYMB4N-2C	LSXZ27NB
LSXA4L	LSXH4K	LSXP7L14-2C	LSXYMB4N5-1A	LSXZ27S
LSXA4L-1A	LSXH4L	LSXP7L3	LSXYMC4N	LSXZ27SB
LSXA4L-1C	LSXH4L-4	LSXQA3K332	LSXYNB3K	LSXZ27SC
LSXA4L-2C	LSXH4L3	LSXQC4C	LSXYNB3N-1A	LSXZ27T
LSXA4L-2K	LSXH7L4-1A	LSXR3K	LSXYNB4L	LSXZ27TB
LSXA4L-4M	LSXJ3E-7A	LSXR3K-1A	LSXYPB3K	LSXZ27TC
LSXA4L-5C	LSXJ3K-7A	LSXR3K-1C	LSXYPB4L	LSXZ27U
LSXA4L13-2J	LSXJ4L-7A	LSXR3K-5A	LSXYPB4S	LSXZ27UB
LSXA4L2-1C	LSXJ4S-7A	LSXR4K-2C	LSXYPC4L5	LSXZ27UC
LSXA4L3-2C	LSXJ7L-7A	LSXR4L	LSXYRB3K	LSXZ3E
LSXA4L4-1A	LSXK3K-8A	LSXR4L-1C	LSXYVC3K	LSXZ3K
LSXA4L4-2C	LSXK4L-8A	LSXR4L-2J	LSXYWC3K	LSXZ3L
LSXA4L5	LSXL4M	LSXR4L-5A	LSXYWC4L5	LSXZ3M
LSXA4L5-1A	LSXL4M4	LSXR4L-5C	LSXZ1C	LSXZ3S
LSXA4S	LSXL7M-2C	LSXR4L1	LSXZ1CB	LSXZ4012
LSXA4S-2K	LSXM4N	LSXR4L24	LSXZ1CC	LSXZ4022
LSXA4S13-2C	LSXM4N-1A	LSXU3K	LSXZ1D	
LSXA4S5	LSXM4N-1C	LSXV3K	LSXZ1DB	
LSXA7L	LSXM4N-2C	LSXV4L	LSXZ1DC	
LSXA7L-1A	LSXM4N-2J	LSXV4S	LSXZ1E	
LSXA7S	LSXM4N-3S	LSXV7L	LSXZ1EB	
LSXA7S-2	LSXM4N-4M	LSXW3K	LSXZ1EC	
LSXA7S1-1C	LSXM4N-5C	LSXW3K3	LSXZ1F	
LSXA7S2-1C	LSXM4N3-1A	LSXW4L	LSXZ1FB	
LSXB3K	LSXM4N3-TA LSXM4N4	LSXW7L	LSXZ1FC	
LSXB3K-4M			LSXZ1FC LSXZ1KHA	
LSXB3K-4IVI LSXB4L	LSXM4N4-1A	LSXYAB3E		
	LSXM4N5	LSXYAB3K	LSXZ1V	
LSXB4L-1C	LSXM4N5-1A	LSXYAB3K-1A	LSXZ1VB	
LSXB4L-4M	LSXM4U	LSXYAB3K2	LSXZ1VC	
LSXC3E	LSXM7N	LSXYAB3K2-5C	LSXZ1W	
LSXC3K	LSXM7N-1A	LSXYAB3K5-2C	LSXZ1WB	
LSXC4K	LSXM7U	LSXYAB4K	LSXZ1WC	
LSXC4L	LSXN3K	LSXYAB4K-1A	LSXZ23E	

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ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell web site at sensing.honeywell.com:

- Product installation instructions
- Product range guide
- Hazardous area product brochure
- Product application-specific information
 - Application note: Electronic sensors and electromechanical switches in valves and flow meters
 - Application note: MICRO SWITCH™ switches in conveyor applications
 - Application note: Sensors and switches for industrial manual process valves
 - Application note: Sensors and switches used in valve actuators and valve positioners
 - Limit and enclosed switches reference standards
 - Sensors and switches in oil rig applications

WARNING PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARNING MISUSE OF DOCUMENTATION

- The information presented in this product sheet is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.

While we provide application assistance personally, through our literature and the Honeywell website, it is up to the customer to determine the suitability of the product in the application.

Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. However, we assume no responsibility for its use.

Find out more

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office.

To learn more about Honeywell's sensing and control products, call **+1-815-235-6847 or 1-800-537-6945**, visit **sensing.honeywell.com,** or e-mail inquiries to **info.sc@honeywell.com**

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