Honeywell



MICRO SWITCH™
Hazardous Area Switches
LSX Series



MICRO SWITCH™ LSX Series Hazardous Area Limit Switches

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



Door interlocks for sliding or hinged gates or doors



Often used as a valve position monitor



Figure 1. MICRO SWITCH™ LSX SERIES FEATURES AND OPTIONS



Figure 2. MICRO SWITCH™ LSX SERIES NOMENCLATURE

LSX Switch Typ	oe	J Head Style	3K Circuitry and Conduit Connection		Modification Code	-	Actuator Options**
LSX Serie		Side rotary; momentary	3E 1NO/1NC, gold contacts, 1/2-14NPT	1	CW rotation	1	Fixed roller, 1.5 in radius
Area Switch	В	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
own.orr	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	4L 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	2NO/2NC, 3/4-14NPT, sequential operation	6	Roller perpendicular to mounting surface	2C	Adjustable, 0.75 in x 0.25 in nylon roller
	н	Side rotary, momentary; low PT, low torque	4N 2NO/2NC, 3/4-14NPT, center neutral	8	Roller on side plunger in vertical position	2 J	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	2NO/2NC, gold contacts, 3/4-14NPT, sequential operation	NPT, Ition		3E	Yoke, 0.75 in x 0.25 in nylon roller
	L	Side rotary; sequential	2NO/2NC, gold contacts, 3/4-14NPT, center neutral			3M	Yoke, 0.75 in x 0.25 in nylon roller
	M	Side rotary; central neutral	7L 2NO/2NC, 1/2-14NPT			35	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	75 2NO/2NC, gold contacts, 1/2-14NPT			5	Offset, rollerless
	U	Side rotary, low pre-travel	2NO/2NC, gold contacts, 1/2-14NPT, sequential operation			5A	Offset, 0.75 in x 0.25 in nylon roller
	V	Top plunger, adjustable	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 combir	ations avai	lable. Please contact Hon	** Levers can be ordered separ eywell for assistance See Levers for Side Rotary Actu	ately. uated S	Switches table	8A	Whisker, 5.5 in
To order high catalog listing,	•	,	ional letters Y and C in the appro	priate _l	places in the standard	9A	Fixed, 0.75 in x 0.25 in nylon roller, open, 1.33 in radius
LSXA3K	standard, s	side-rotary plug-in switch					Fixed, 0.75 in x 0.25 in
LSX <u>Y</u> A <u>C</u> 3K	completely		9C	nylon roller, closed, 1.33 in radius			

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

	2,			
LSXA3K	standard, side-rotary plug-in switch			
LSXYAB3K	low-temperature version of LSXA3K			

For more details, please see page 8.

Table 1. Specifications

Characteristic	Parameter Parame							
Product type	MICRO SWITCH™ hazardous area limit switches							
Actuators	side pin plunger side rotary top pin plunger - adjustable wobble - cat whisker	side pin plunger - adjustable side rotary maintained top roller plunger wobble - plastic rod	side roller plunger top pin plunger top rotary					
Circuitry	2NC 2	1NC 1NO SPDT snap action, double be 2NC 2NO DPDT snap action, double be 2NO DPDT snap action, double break, compact on DPDT snap action, double break, compaction, double break, compaction, double break, compaction, double	oreak sequential					
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*		tandard: -12 °C to 121 °C [10 °F to 26 optional: -40 °C to 121 °C [-40 °F to 26	•					
UNSPSC code		39122213						
UNSPSC commodity		39122213 Limit Switch						

 $^{^{\}star}$ 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

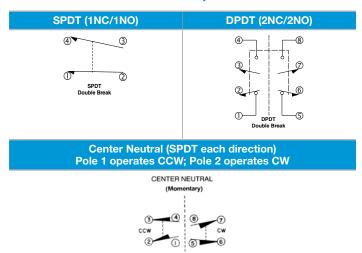
MICRO SWITCH™ LSX SERIES ELECTRICAL RATINGS: dc VOLTS; PILOT DUTY: DC13, R300

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 SWITCHTM 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



SPDT Double Break each direction

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, 5° 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. Oiltight 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.



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 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. The roller can be turned vertical or horizontal to the switch. Boot seal on plunger. Momentary action.



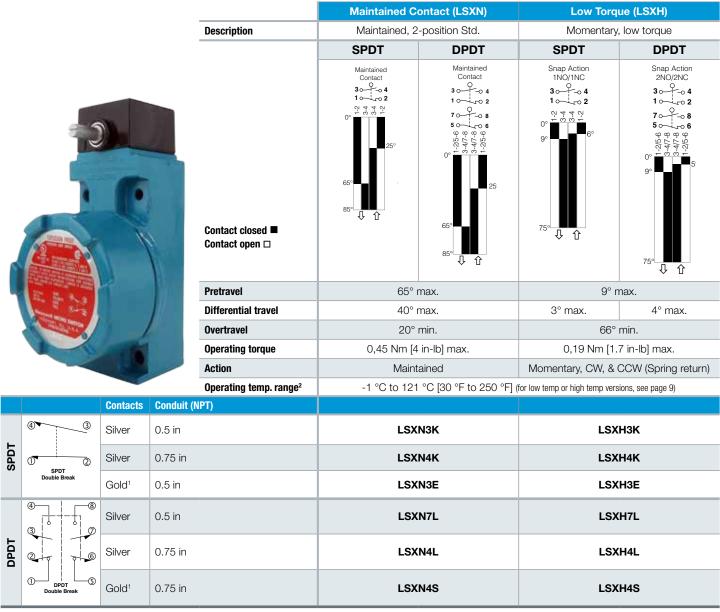
LSXW - Adjustable side pin plunger: Has the same features of the side plain plunger plus the means to adjust the operating points of the switch from 41 mm to 47,4 mm [1.615 in to 1.865 in]. Momentary action.

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

					Stan (LS		Low Dif (LS	ferential XP)	Low To		
			Description	Stan	dard	Low differe	ential travel	Low operat	ing torque		
				Contact closed ■ Contact open □		SPDT Snap Action 1NO/1NC 30 - 04 10 - 02 75 0 0 15 150 The state of		SPDT DPDT Snap Action 1NO/1NC 30 04 10 02 70 8 50 06 9° 09 09 09 09 09 09 09 09 09 09 09 09 09		SPDT DPDT Snap Action 1NO/1NC 30 0 4 10 0 2 7 0 8 50 8 9 9 9 9 7 10 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8 15 0 8	
			1	Pretravel	15° ı	max.	9° r	nax.	15° r	nax.	
٦	思事处		1//	Differential travel	5° max.	7° max.	3° max.	4° max.	5° max.	7° max.	
		8		Overtravel	60° min.		66°	66° min.		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.		
	0.00		100	Action		Mom	entary, CW, & 0	CCW (Spring re	return)		
				Operating temperature range ²		-12 °C to [10 °F to	o 121 °C o 250 °F]		-1 °C to 121 °C [30 °F to 250 °F]		
		Contacts	Conduit (N	IPT)							
	3	Silver	0.5 in		LSX	АЗК	LSX	P3K	LSXI	R3K	
SPDT	① ②	Silver	0.75 in		LSX	A4K	LSXP4K		LSXR4K		
	Double Break	Gold ¹	0.5 in		LSX	A3E	LSX	P3E	LSX	R3E	
	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Silver	0.5 in		LSXA7L		LSXP7L		LSXR7L		
DPDT	2 6	Silver	0.75 in		LSX	A4L	LSXP4L		LSXR4L		
	① DPDT S	Gold ¹	0.75 in		LSX	A4S	LSX	P4S	LSX	R4S	
1 Gold	d-plated contacts										

 $^{^1}$ 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



¹ Gold-plated contacts

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

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

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

					Center Neutral (LSXM)	Sequence Action (LSXL)		
				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 13° 75° 4 8° 0° 0° 8° 4 8° 0° 0° 8° 4 8° 0° 0° 8° 4 8° 0° 0° 8° 4 8° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0°	15° 10° 20° 10° 20°		
		1		Pretravel	18° max.	1st: 15°; 2nd: additional 10°		
V	01-5		///	Differential travel	10° max.	each pole: 5°		
- 1		1 1	"	Overtravel	57° min.	48° min.		
`				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 (NPT)				
	4 ————————————————————————————————————	Silver	0.5 in		LSXM7N	LSXL7M		
5	3 6 8	Silver 0.75 in			LSXM4N	LSXL4M		
DPDT	Q O O O O O	Gold ¹	0.5 in		LSXM7U	LSXL7T		
	Double Break	Gold ¹	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.

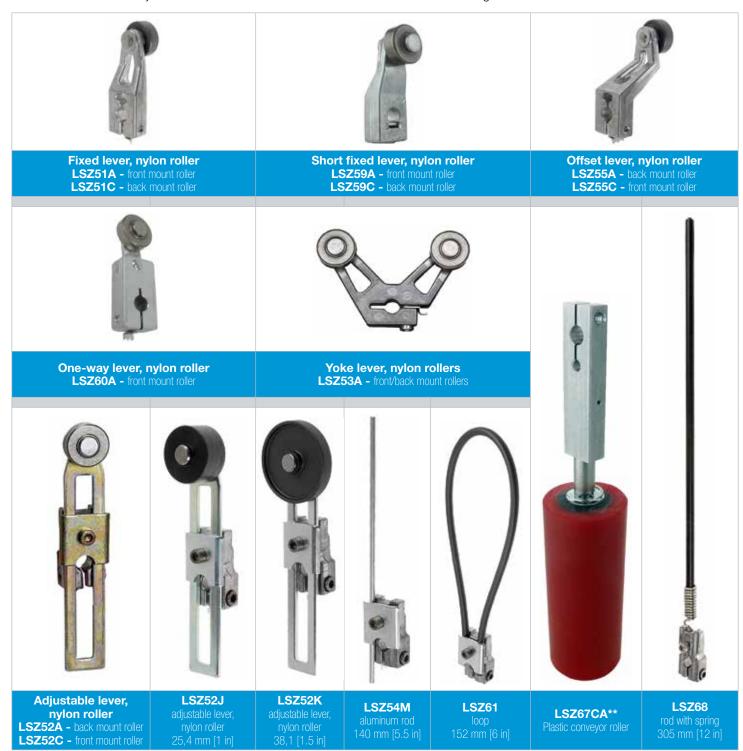
TOP ROTARY • MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

					Standar	rd (LSXB)		
				Description	Star	ndard		
					SPDT	DPDT		
					Snap Action 1NO/1NC 3 0 4 1 0 0 2	Snap Action 2NO/2NC 3 0 0 4 1 0 0 2		
	Contact close Contact open				135°	70 — 08 50 — 09 90 — 00 90 — 00 135° — 10 135° — 1		
				Pretravel	25°	max.		
				Differential travel	10° max.	12° max.		
				Overtravel	110	° min.		
				Operating torque	0,25 Nm	[2.5 in-lb]		
				Action	Momentary, CW, &	CCW (Spring return)		
	The state of the s	STATE OF THE PARTY		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)				
T	3	3 Silver 0.5			LSXB3K	-		
SPDT	SPDT Double Break	Silver	0.75 in		-	LSXB4L		

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 mm [1.5 in] radius							
4	LSZ51	Rollerless	n/a	n/a	n/a			
	LSZ51A	Nylon	19 [0.75]	6,35 [0.25]	Front			
1850.00	LSZ51C	Nylon	19 [0.75]	6,35 [0.25]	Back			
JU/186	LSZ51F	Nylon	25,4 [1.0]	12,7 [0.50]	Front			
/// III	LSZ51G	Nylon	38,1 [1.5]	6,35 [0.25]	Front			
	LSZ51J	Nylon	25,4 [1.0]	12,7 [0.50]	Back			
35111	LSZ51M	Nylon	19 [0.75]	31,7 [1.25]	Back			
200	LSZ51P	Nylon	19 [0.75]	12,7 [0.50]	Front			
Tile	LS2Z51A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front			
- Alle	LS2Z51C (sst)	Nylon	19 [0.75]	6,35 [0.25]	Back			
	LS2Z51E (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Front			
	LS2Z51F (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Back			
	Adjustable	38,1 mm [1.5 i	in] to 88,9	mm [3.5 in]	radius			
	LSZ52	Rollerless	n/a	n/a	n/a			
(O)	LSZ52A	Nylon	19 [0.75]	6,35 [0.25]	Back			
	LSZ52C	Nylon	19 [0.75]	6,35 [0.25]	Front			
	LSZ52E	Nylon	19 [0.75]	33,0 [1.30]	Front			
and the same of	LSZ52J	Nylon	25,4 [1.0]	12,7 [0.50]	Front			
6	LSZ52K	Nylon	38,1 [1.5]	6,35 [0.25]	Front			
1 4	LSZ52M	Nylon	50,8 [2.0]	6,35 [0.25]	Front			
y pu	LSZ52N	Nylon	19 [0.75]	12,7 [0.50]	Front			
10 (0	LS2Z52A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front			
11 11	LS2Z52C (sst)	Nylon	19 [0.75]	6,35 [0.25]	Back			
	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	. ,	.,				
	LSZ53A	Nylon	19 [0.75]	6,35 [0.25]	Front/Back			
(0)	LSZ53E	Nylon	19 [0.75]	6,35 [0.25]	Back/Front			
80	LSZ53M	Nylon	19 [0.75]	31,7 [1.25]	Back/Front			
(S)	LSZ53S	Nylon	19 [0.75]	6,35 [0.25]	Back/Back			
	Rod							
1	LSZ54	Hub only	n/a	n/a	n/a			
	LSZ54M	Alum, 140 mm [5.5 in]	Ø 3,2 [Ø 0.125]	n/a	n/a			
	LSZ54N	Stainless, 330 mm [13 in]	Ø 3,2 [Ø 0.125]	n/a	n/a			
	LSZ54P	Plastic rod, 305 mm [12 in]	Ø6,85 [Ø 0.27]	n/a	n/a			
	LSZ54W	Plastic rod, 183 mm [7.2 in]	Ø6,85 [Ø 0.27]	n/a	n∕a			
	Offset - 38,	1 mm [1.5 in]	radius					
	LSZ55	Rollerless	n/a	n/a	n/a			
124	LSZ55A	Nylon	19 [0.75]	6,35 [0.25]	Back			
120	LSZ55C	Nylon	19 [0.75]	6,35 [0.25]	Front			
	LSZ55E	Nylon	19 [0.75]	12,7 [0.50]	Front			
	LSZ55K	Nylon	38,1 [1.5]	6,35 [0.25]	Front			

	Catalog Listing	Material	Roller Dia. mm [in]	Roller Width mm [in]	Roller Mounting		
	Short fixed	Short fixed - 33,02 mm [1.3 in] radius					
-	LSZ59A	Nylon	19 [0.75]	6,35 [0.25]	Front		
3	LSZ59C	Nylon	19 [0.75]	6,35 [0.25]	Back		
	One-way roller lever						
	LSZ60A	Nylon	19 [0.75]	6,35 [0.25]	Front		
	Flexible loop)					
\wedge	LSZ61	Ø 4,8 [Ø 0.19] Nylatron	152 mm [6 i	152 mm [6 in] flexible loop			
()	LSZ618	Ø 4,8 [Ø 0.19] Nylatron	241 mm [9.5	in] flexible loo	р		
V	LSZ54	Hub only	n/a	n/a	n/a		
	Spring rod						
	LSZ68	Delrin rod, 305 mm [12 in]	Ø 6,35 [0.25]	n/a	n/a		
	LSZ617	Delrin rod, 406 mm [16 in]	Ø 6,35 [0.25]	n/a	n/a		
	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]	12,7 [0.5]	front		
Bar	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		

 $^{^{\}star}$ May require orientation of switch and lever to enable gravity to help restore switch to free position.

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

All top plungers are momentary action.

	Adjustable top plain plunger simplifies installation since operating point can be adjusted from 65,66 mm min.; 72,0 mm max. [2.585 in min; 2.835 in max.]					
operating motion be set at 90° increments per to accept cam or slide	plunger simplifies installa- tion since operating point can be adjusted from 65,66 mm min.; 72,0 mm max. [2.585 in min;					
SPDT DPDT SPDT DPDT	SPDT DPDT					
1.4 mm [0.050 in] [0.050 in] [0.050 in]	Snap Action 1NO/INC 30					
And I was a state of the state	1,78 mm [0.07 in]					
Differential travel 0,38 mm 0,51 mm 0,38 mm 0,51 mm	0,38 mm					
Overtravel 4,83 mm [0.19 in]	4,83 mm [0.19 in]					
Operting force 17,8 N [4 lb] max.						
Operating point 58,55 mm ± 0.76 mm $\pm 1,02$ mm	65,66 mm min.; 72,0 mm max. [2.585 in min; 2.835 in max.]					
Operating temp. range ² -12 °C to 93 °C [10 °F to 200 °F] (for low temp or high temp	temp versions, see page 9)					
Contacts Conduit (NPT)						
Silver 0.5 in LSXC3K LSXD3K	LSXV3K					
Silver 0.75 in LSXC4K LSXD4K	LSXV4K					
Double Break Gold ¹ 0.5 in LSXC3E LSXD3E	LSXV3E					
Silver 0.5 in LSXC7L LSXD7L	LSXV7L					
Silver 0.75 in LSXC4L LSXD4L	LSXV4L					
© Double Break Gold¹ 0.75 in LSXC4S LSXD4S	LSXV4S					

 $^{^1}$ 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 (LSXW)			
							0			
		Description	Side plain plung line operating ption		for in- tion Side roller plun be set at 90° ir to accept can actuation		Adjustable side plain plunger simplifies installation since operating point can be adjusted from 41 mm min.; 47,37 mm max. [1.615 in min.; 1.865 in max.]			
				SPDT	DPDT	SPDT	DPDT	SPDT	DPDT	
			Contact closed ■ Contact open □ Pretravel Differential travel Overtravel Operting force Operating point	33,02 mm [1.300 in	Snap Action 1NO//NC 30 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 4 10 - 2 50 - 3 50 - 4 10 - 3 50 - 4 10 - 3 50 - 4 10 - 3 50 - 4 10 - 3 50 - 4 10 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50 - 3 50			1 2		
				Operating town, range ²	10.0	°C to 93 °C [10	°E +0 200 °E1 #	or law town or high t	ma omn versions, see n	
		Contacts	Conduit (N	Operating temp. range ²	-12	0110 06 0110	1 10 200 17 (1	or row remp or might t	оттр устаюна, аее р	ayo əj
		Silver	0.5 in		LSX	(E3K	LSX	F3K	LSX	W3K
SPDT	① ②	Silver	0.75 in		LSXE4K		LSXF4K		LSXW4K	
Double Break		Gold ¹	0.5 in		LSXE3E		LSXF3E		LSXW3E	
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		Silver	0.5 in		LSX	(E7L	LSX	F7L	LSX	W7L
DPDT	DPDT	Silver	0.75 in		LSX	(E4L	LSX	F4L	LSX	W4L
	① DPDT S	Gold ¹	0.75 in		LSX	Œ4S	LSX	F4S	LSX	W4S

¹ Gold-plated contacts

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

WOBBLE • MICRO SWITCH™ LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

					LSXJ Series 7A Actuator		LSXK Series 8A Actuator	
				Description	Delrin® plastic rod le	ever (wobble stick)	Cat whisker actuat force ap	or for low operating olications
					SPDT	DPDT	SPDT	DPDT
		LSJ1A-7A LSK1A-Plastic rod whisker Contact closed Contact open	Snap Action 2NO/2NC 30 0 4 10 0 2 70 -0 8 50 0 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		-8A Snap Action 2NO/2NC 30 -0 4 10 -0 2 70 -0 8 50 -0 6 9 9 9 9 9 10 1 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0 10 0 0 0			
				Actuator length	152,4 mm [6 in]		139,7 mm [5.5 in] copper alloy	
P		Pretravel	25,4 mm [1.0 in]		51,0 mm [2.0 in]			
	Operating force		Operating force	2,78 Nm	[10 oz]	1,39 Nm [5 oz]		
Operating temp. range ²		-12 °C to 93 °C [10 °F to 200 °F] (for low temp or high temp versions, see page 9)						
		Contacts	Conduit (N	IPT)				
	⊕ 3 Si		0.5 in		LSXJ3	K-7A	LSXK	3K-8A
SPDT	① ②	PDT			LSXJ4	K-7A	LSXK	4K-8A
	Double Break	Gold ¹	0.5 in		LSXJ3	E-7A	LSXK	3E-8A
TOPO (S)	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Silver	0.5 in		LSXJ7	L-7A	LSXK	7L-8A
	2 0 0 6	Silver	0.75 in		LSXJ4	L-7A	LSXK	4L-8A
		Gold¹ 0.75 in			LSXJ4S-7A		LSXK4S-8A	

 $^{^2}$ 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

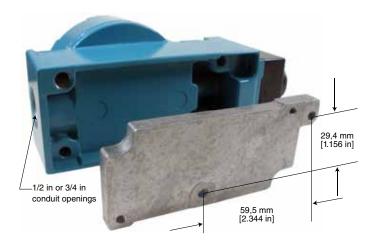
Circuitry	Replacement Contact Block
Single pole	LSXZ3K
Double pole	LSXZ3L
Sequence or central neutral	LSXZ3M

REPLACEMENT HEADS FOR STANDARD LSX SWITCHES

Switch Type	Catalog Listing/Operating Head Only
LSXA	LSZ1A
LSXB	LSZ1B
LSXC	LSXZ1C
LSXD	LSXZ1D
LSXE	LSXZ1E
LSXF	LSXZ1F
LSXH	LSZ1H
LSXJ	LSZ1JGA
LSXK	LSXZ1KHA
LSXL	LSZ1L
LSXM	LSZ1M
LSXN	LSZ1N
LSXP	LSX1P
LSXR	LSZ1R
LSXU	LSZ1U
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 LSXA3K23 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.

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

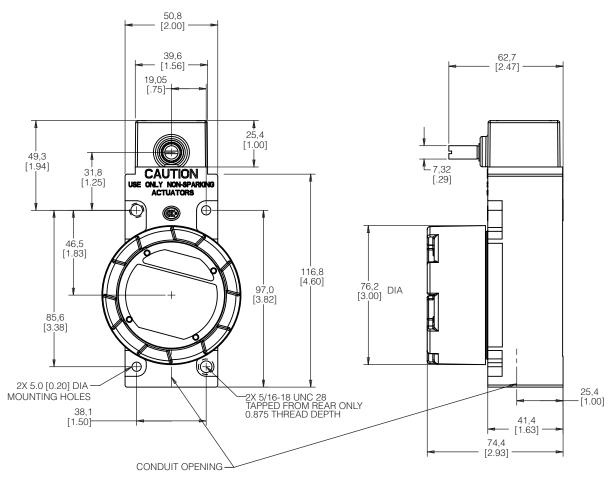


Figure 4. MICRO SWITCH™ LSX SERIES WOBBLE STICK, **HEAD CODE J • mm [in]**

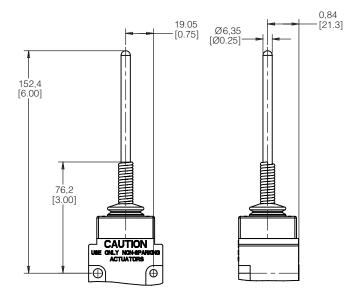


Figure 5. MICRO SWITCH™ LSX SERIES CAT WHISKER WOB-BLE, HEAD CODE K • mm [in]

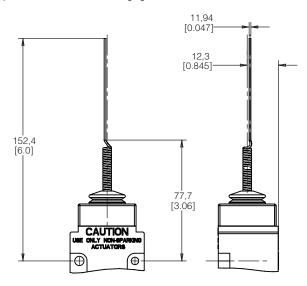


Figure 6. MICRO SWITCH™ LSX SERIES TOP ROTARY, **HEAD CODE B • mm [in]**

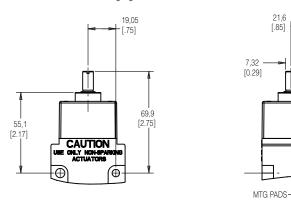


Figure 8. MICRO SWITCH™ LSX SERIES TOP ROLLER PLUNGER, HEAD CODE D • mm [in]

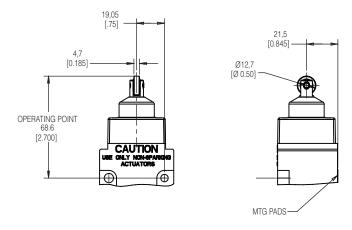


Figure 10. MICRO SWITCH™ LSX SERIES ADJUSTABLE TOP PIN PLUNGER, HEAD CODE V • mm [in]

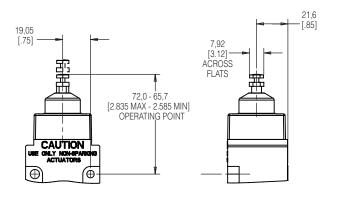


Figure 7. MICRO SWITCH™ LSX SERIES TOP PIN PLUNGER, **HEAD CODE C • mm [in]**

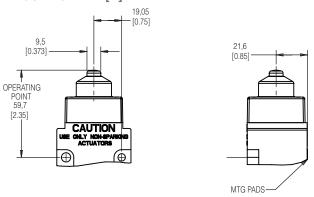


Figure 9. MICRO SWITCH™ LSX SERIES SIDE PLUNGER, **HEAD CODE E • mm [in]**

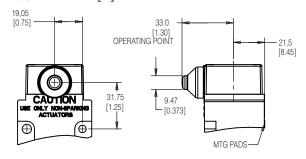


Figure 11. MICRO SWITCH™ LSX SERIES SIDE ROLLER PLUNGER, HEAD CODE F • mm [in]

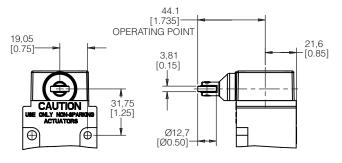
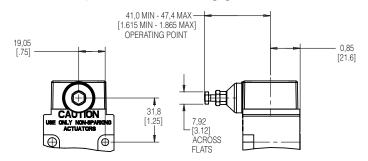


Figure 12. MICRO SWITCH™ LSX SERIES ADJUSTABLE SIDE PIN PLUNGER, HEAD CODE W • mm [in]



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

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 switching products, call +1-815-235-6847 or 1-800-537-6945, visit sensing.honeywell.com, or e-mail inquiries to

info.sc@honeywell.com

WARNINGPERSONAL 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

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