# Honeywell



# MICRO SWITCH™ Hazardous Area Switches LSX Series



Datasheet

MICRO SWITCH<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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

## MICRO SWITCH™ Hazardous Area Limit Switches

#### Figure 1. MICRO SWITCH™ LSX SERIES FEATURES AND OPTIONS



#### Figure 2. MICRO SWITCH™ LSX SERIES NOMENCLATURE

<b>LSX</b> Switch Type	J Head Style	<b>3K</b> Circuitry and Conduit Connection	Modification Code	- <b>7A</b> Actuator Options**
<b>LSX</b> Series Hazardous	A Side rotary; momentary	<b>3E</b> 1NO/1NC, gold contacts, 1/2-14NPT	1 CW rotation	Fixed roller, 1.5 in radius
Area Switch	B Top rotary; momentary	<b>3K</b> 1NO/1NC, 1/2-14NPT	2 CCW rotation	<b>1A</b> Fixed 0.75 in x 0.25 in nylon roller, 1.5 in radius
	C Top plunger, plain	<b>3N</b> SPNC direct acting, 1/2-14NPT	3 Head assembled with actuator to right side	<b>1C</b> Fixed 0.75 in x 0.25 in nylon roller, 1.5 in radius
	D Top plunger, roller	<b>4K</b> 1NO/1NC, 3/4-14NPT	4 Head assembled with actuator to left side	2 Adjustable, rollerless
	E Side plunger plain; momentary	<b>4</b> 2NO/2NC, 3/4-14NPT	5 Head assembled with actuator toward mounting surface	Adjustable, 0.75 in x 0.25 in nylon roller
	<b>F</b> Side plunger roller; momentary	<b>4M</b> 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	<b>4N</b> 2NO/2NC, 3/4-14NPT, center neutral	8 Roller on side plunger in vertical position	<b>2J</b> Adjustable, 1.0 in x 0.5 in nylon roller
	J Wobble stick	4S 2NO/2NC, gold contacts, 3/4-14NPT		<b>2K</b> Adjustable, 0.5 in x 0.25 in nylon roller
	K Whisker	<b>4T</b> 2NO/2NC, gold contacts, 3/4-14NPT, sequential operation		<b>3E</b> Yoke, 0.75 in x 0.25 in nylon roller
	Side rotary; sequential	4U 2NO/2NC, gold contacts, 3/4-14NPT, center neutral		<b>3M</b> Yoke, 0.75 in x 0.25 in nylon roller
	Side rotary; central neutral	<b>7L</b> 2NO/2NC, 1/2-14NPT		<b>3S</b> Yoke, 0.75 in x 0.25 in nylon roller, same side
	N Side rotary; maintained	<b>7M</b> 2NO/2NC, 1/2-14NPT, sequential operation		4 Hub only
	P Side rotary, momentary; low PT and DT	<b>7N</b> 2NO/2NC, 1/2-14NPT, center neutral		<b>4M</b> Hub rod, aluminum
	R Side rotary, momentary; low torque	<b>7S</b> 2NO/2NC, gold contacts, 1/2-14NPT		5 Offset, rollerless
	U Side rotary, low pre-travel	<b>71</b> 2NO/2NC, gold contacts, 1/2-14NPT, sequential operation		<b>5A</b> Offset, 0.75 in x 0.25 in nylon roller
	V Top plunger, adjustable	<b>7U</b> 2NO/2NC, gold contacts, 1/2-14NPT, center neutral		<b>5C</b> Offset, 0.75 in x 0.25 in nylon roller
	W Side plunger, adjustable			<b>7A</b> Plastic wobble stick
Not all combination	s available. Please contact Hon	** Levers can be ordered separ eywell for assistance See Levers for Side Rotary Actu	ately. Jated Switches table	<b>8A</b> 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.

#### 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	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		39122213					
UNSPSC commodity	39122213 Limit Switch						

 $^{\ast}$  Reference operating head styles on page 9 and 10 for exceptions.

#### MICRO SWITCH<sup>™</sup> 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 DPDT	120	60	6
A600		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 DPDT	120	0.25	0.8
R300		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.

## MICRO SWITCH™ Hazardous Area Limit Switches

#### **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<sup>®</sup> 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 <sup></sup> → 8 50 ∞6 9-9/27-1 15 <sup></sup> → 6 15 <sup></sup> → 7 15 <sup></sup> → 7 1	75° € €	70 50 50 90 90 90 10 10 10 10 10 10 10 1	0° <sup>№</sup> <sup>№</sup> <sup>№</sup> <sup>№</sup> <sup>№</sup> 15° <sup>№</sup> <sup>№</sup> <sup>№</sup> <sup>№</sup> 75° <sup>№</sup> <sup>№</sup> <sup>№</sup>	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	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 <sup>2</sup>	-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 <sup>1</sup>	0.5 in		LSX	A3E	LSXP3E		LSXR3E			
		Silver	0.5 in		LSX	A7L	LSX	P7L	LSX	R7L		
рррт		Silver	0.75 in		LSX	A4L	LSXP4L		LSXR4L			
	DPDT 5	Gold <sup>1</sup>	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 Torq	ue (LSXH)	
				Description	Maintained, 2-	position Std.	Momentary	low torque	
					SPDT	DPDT	SPDT	DPDT	
				Contact closed ■ Contact open □	Maintained Contact $3 \circ - \circ 4$ $1 \circ - \circ 2$ $0 \circ - \circ 4$ $1 \circ - \circ 2$ $0 \circ - \circ 4$ $1 \circ - \circ 2$ $0 \circ - \circ 4$ $1 \circ - \circ 2$ $1 \circ - \circ 0$ $5 \circ - \circ 0$		Snap Action 1NO(1NC $3 \circ - \circ 4$ $1 \circ - \circ 2$ $3 \circ - \circ 4$ $1 \circ - \circ 2$ $3 \circ - \circ 4$ $1 \circ - \circ 2$ $7 \circ - \circ 8$ $5 \circ - \circ 6$ $9 \circ 9 \circ 7 \circ 9$ $9 \circ 9 \circ 7 \circ 9$ $9 \circ 9 \circ 7 \circ 9$ $7 \circ - \circ 8$ $5 \circ - \circ 9 \circ 9$ $9 \circ 9 \circ 7 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $7 \circ 9 \circ 9$ $9 \circ 9 \circ 9$ 9		
4		4	1 in	Pretravel	65° max.		9° max.		
	1 2 C		11 -	Differential travel	40° r	nax.	3° max.	4° max.	
				Overtravel	20° r	nin.	66° min.		
		16		Operating torque	0,45 Nm [4	in-lb] max.	0,19 Nm [1.7 in-lb] max.		
				Action	Maintained		Momentary, CW, & CCW (Spring return)		
				Operating temp. range <sup>2</sup>	-1 °C to 121	°C [30 °F to 250 °F]	(for low temp or high temp versions, see page 9)		
		Contacts	Conduit (I	IPT)					
	<b>()</b>	Silver	0.5 in		LSXN3K		LSXH3K		
SPDT	0 2	Silver	0.75 in		LSXI	N4K	LSXH4K		
0,	SPDT Double Break	Gold <sup>1</sup>	0.5 in		LSXN3E		LSXH3E		
		Silver	0.5 in		LSXN7L		LSXH7L		
DPDT		Silver	0.75 in		LSXN4L		LSXH4L		
	①DPDT⑤ Double Break	Gold <sup>1</sup>	0.75 in		LSXI	N4S	LSXH4S		

<sup>1</sup> Gold-plated contacts <sup>2</sup> 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	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 □	$CCW \xrightarrow{18^{\circ}}_{18^{\circ}} \xrightarrow{75^{\circ}}_{6} \xrightarrow{1}_{6} \xrightarrow{75^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{6} \xrightarrow{8^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}}} \xrightarrow{0^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}}} \xrightarrow{0^{\circ}}_{75^{\circ}} \xrightarrow{0^{\circ}}_{75^{\circ}$	
4	Et. R. A. A			Pretravel	18° max.	1 <sup>st</sup> : 15°; 2 <sup>nd</sup> : additional 10°
	and and			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 <sup>2</sup>	-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 <sup>1</sup>	d <sup>1</sup> 0.5 in		LSXM7U	LSXL7T
	Double Break	Gold <sup>1</sup>	0.75 in		LSXM4U	LSXL4T

<sup>1</sup> Gold-plated contacts

<sup>2</sup> 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	Standard				
					SPDT	DPDT			
					Snap Action 1NO/1NC	Snap Action 2NO/2NC			
					30	30			
						$1 \circ - \circ 2$ $7 \circ - \circ 8$			
	10					50			
					25°				
		3.1				0° 13°			
						25°			
	Culture and	CHI CHI							
		-		Contact closed					
				Contact open	135° └─■■■── ↓ ①				
				-		135°			
		11 2323 5							
	1 2	i in the second	2	Pretravel	25°	max.			
			3.	Differential travel	10° max.	12° max.			
				Overtravel	110° min.				
			<i>r</i>	Operating torque	0,25 Nm [2.5 in-lb]				
	Action Operating ten		Action	Momentary, CW, & CCW (Spring return)					
			Operating temp. range <sup>1</sup>	-1 °C to 121 °C [30 °F to 250 °F] (for low temp or high temp versions, see page 9)					
		Contacts	Conduit (N	IPT)					
	3	Silver	0.5 in		LSXB3K				
F		Silver	0.5 m		LOADON	-			
SPDT	D 2 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	dius		
	LSZ51	Rollerless	n/a	n/a	n/a
	LSZ51A	Nylon	19 [0.75]	6,35 [0.25]	Front
10.00	LSZ51C	Nylon	19 [0.75]	6,35 [0.25]	Back
10710	LSZ51F	Nylon	25,4 [1.0]	12,7 [0.50]	Front
<i>101</i> ID	LSZ51G	Nylon	38,1 [1.5]	6,35 [0.25]	Front
	LSZ51J	Nylon	25,4 [1.0]	12,7 [0.50]	Back
Sec. 1	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
	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		radius
-	LSZ52	Rollerless	n/a	n/a	n/a
( <b>0</b> )	LSZ52A	Nylon	19 [0.75]	6,35 [0.25]	Back
2	LSZ52C	Nylon	19 [0.75]	6,35 [0.25]	Front
	LSZ52E	Nylon	19 [0.75]	33,0 [1.30]	Front
a last,	LSZ52J	Nylon	25,4 [1.0]	12,7 [0.50]	Front
6	LSZ52K	Nylon	38,1 [1.5]	6,35 [0.25]	Front
1.0	LSZ52M	Nylon	50,8 [2.0]	6,35 [0.25]	Front
	LSZ52N	Nylon	19 [0.75]	12,7 [0.50]	Front
	LS2Z52A (sst)	1.			Front
		Nylon	19 [0.75]	6,35 [0.25]	
	LS2Z52C (sst)	Nylon Copper allov	19 [0.75]	6,35 [0.25]	Back
	LS2Z52E (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Front Back
	LS2Z52F (sst)		19 [0.75]	6,35 [0.25]	Dauk
		mm [1.5 in] ra		0.05 (0.05)	Example 1
0 0	LSZ53A	Nylon	19 [0.75]	6,35 [0.25]	Front/Back
	LSZ53E	Nylon	19 [0.75]	6,35 [0.25]	Back/Front
NV CI	LSZ53M	Nylon	19 [0.75]	31,7 [1.25]	Back/Front
	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
9	LSZ54W	Plastic rod, 183 mm [7.2 in]	Ø6,85 [Ø 0.27]	n/a	n/a
		1 mm [1.5 in]			
	LSZ55	Rollerless	n/a	n/a	n/a
No. 1	LSZ55A	Nylon	19 [0.75]	6,35 [0.25]	Back
112	LSZ55C	Nylon	19 [0.75]	6,35 [0.25]	Front
-	LSZ55E	Nylon	19 [0.75]	12,7 [0.50]	Front
CONTRACTOR OF CONT	107551/	Lass a		I show and shows	

	Catalog Listing	Material	Roller Dia. mm [in]	Roller Width mm [in]	Roller Mounting			
	Short fixed	- 33,02 mm [1		IS				
	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						
$\cap$	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 in] flexible loop					
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				4			
	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			
ЩШ.	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.

LSZ55K

Nylon

38,1 [1.5]

6,35 [0.25] Front

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

All top plungers are momentary action.

				Plain (	(LSXC)	Roller	(LSXD)	Adjustable (LSXV)	
							by		
			Description		nger for in-line g motion	be set at 90 to accept o	unger – can ° increments am or slide ation	Adjustable plunger simp tion since op can be adju 65,66 m 72,0 m [2.585 2.835 ir	lifies installa- erating point usted from m min.; m max. in min;
				SPDT	DPDT	SPDT	DPDT	SPDT	DPDT
			Contact closed ■ Contact open □	Snap Astin NiCritic 3.0 - 0.4 1.7 - 0.2 0 m - 7.7 - 0. 0 m - 7.7 - 0. 1.7 mm - 1.7 mm - 1.0055 m (0.055 m - 0. 0.055 m - 0.055 m - 0. 0.055 m - 0.	Shap Astion 2ND2NC 30	Snap Action 1001NC 30	Snap Asion 2NO2KC 30 € 4 10 € 22 70 € 6 50 € 75 8 0 € 50 € 75 0 € 127 0 € 1000 m 1,000 m 1000 m 1000 m	Snap Action 1001NC 30	Srap Action 2NDONC 30 → 0 4 10 → 0 2 70 → 0 8 50 → 0 6 50 → 0 0 0 0 0 0 0 50 → 0 0 0 0 0 0 0 50 → 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	And a second sec		Pretravel		1	1,78 mm	[0.07 in]		
	A STATE OF CALL		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]
	ALL DESCRIPTION OF THE OWNER	1.5	Overtravel			4,83 mm	[0.19 in]		
	1		Operting force			17,8 N [4	lb] max.		
			Operating point		±0,76 mm ±0.030 in]		±1,02 mm ±0.040 in]	65,66 m 72,0 mr [2.585 in min; 2	n max.
			Operating temp. range <sup>2</sup>	-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)						
3	Silver	0.5 in		LSX	СЗК	LSX	D3K	LSX	V3K
0 2 SPDT	Silver	0.75 in		LSX	C4K	LSX	D4K	LSX	V4K
Double Break	Gold <sup>1</sup>	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	LSX	D4L	LSX	V4L
①DPDT⑤ Double Break	Gold <sup>1</sup>	0.75 in		LSX	C4S	LSX	D4S	LSX	V4S

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)	Adjustabl	le (LSXW)		
Description		Side plain plunger for in- line operating motion		Side roller plunger – can be set at 90° increments to accept cam or slide actuation		Adjustable side plain plunger simplifies installa- tion 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		0 in 2,54 mm [0.10 in] 7,36 mm [0.29 in]	0 in <u>ŕ ở ở ở </u> 1,4 mm [0.055 in] 2,54 mm [0.10 in] [0.055 in]					
Differential travel		2,54 mm [0.10 in] 1,14 mm [0.045 in]						
Overtravel		4,83 mm [0.19 in]						
Operting force			26,7 N [6					
Operating point		33,02 mm ±0,76 mm 44,07 mm ±1,02 mm   [1.300 in ±0.030 in] [1.735 in ±0.04 in]			41 mm min.; 47,37 mm max. [1.615 in min.; 1.865 in max.]			
Operating temp. r	ange <sup>2</sup> -12	°C to 93 °C [10	°F to 200 °F] (fo	or low temp or high t	emp versions, see p	age 9)		
iit (NPT)								
	LS	XE3K	LSX	F3K	LSX	W3K		
ו	LSX	XE4K	LSX	F4K	LSX	W4K		
	LS	XE3E	LSX	F3E	LSX	W3E		
	LS	XE7L	LSX	F7L	LSX	W7L		
n		XE4L	LSX	EAI	LSX			

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.

Contacts

Silver

Silver

Gold<sup>1</sup>

Silver

Silver

Gold<sup>1</sup>

3

2

8

-(5)

## MICRO SWITCH™ Hazardous Area Limit Switches

#### WOBBLE ● MICRO SWITCH<sup>™</sup> LSX SERIES ORDER GUIDE/RECOMMENDED LISTINGS

						Series tuator	LSXK 8A Ac	Series tuator
		Description		lever (wobble stick)	Cat whisker actuator for low operatir force applications			
					SPDT	DPDT	SPDT	DPDT
Con				LSJ1A-7A -Plastic rod LSK1A- 8A - Cat whisker	Snap Action 2NO/2NC $3 \circ - \circ 4$ $1 \circ - \circ 2$ $7 \circ - \circ 8$ $5 \circ - \circ 6$ $9 \circ 8 \times 9 \circ 6$ $12^{\circ} \circ 6$ $12^{\circ} \circ 6$ $12^{\circ} \circ 6$ $12^{\circ} \circ 6$ $12^{\circ} \circ 6$		-8A Snap Action 2NO/2NC 3 0 0 4 1 0 0 0 4 1 0 0 0 8 5 0 0 0 1 15° 25° 75° 0 1 15°	
		50		Actuator length	152,4 mm [6 in]		139,7 mm [5.5	in] copper alloy
Contraction of the owners			1	Pretravel	25,4 mm [1.0 in]		51,0 mm [2.0 in]	
			17	Operating force	2,78 Nn	n [10 oz]	1,39 Nr	m [5 oz]
			<u> </u>	Operating temp. range <sup>2</sup>	-12 °C to 93	3 °C [10 °F to 200 °F]	for low temp or high temp vers	ions, see page 9)
		Contacts	Conduit (N	IPT)				
	<b>(1)</b>	Silver	0.5 in		LSXJ	3K-7A	LSXK	3K-8A
5	0 2 SPDT	© Silver 0.75 in	0.75 in		LSXJ	4K-7A	LSXK	4K-8A
	Double Break	Gold <sup>1</sup>	0.5 in		LSXJ	3E-7A	LSXK	3E-8A
		Silver	0.5 in		LSXJ	7L-7A	LSXK	7L-8A
		Silver	0.75 in		LSXJ	4L-7A	LSXK	4L-8A
DPDT DPDT S		Gold <sup>1</sup> 0.75 in		LSXJ4S-7A		LSXK4S-8A		

<sup>1</sup> Gold-plated contacts

SPDT

DPDT

<sup>2</sup> 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 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.

# 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<sup>™</sup> LSX SERIES WOBBLE STICK, HEAD CODE J • mm [in]



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



Figure 6. MICRO SWITCH<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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** 

### 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.** 

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9680 Old Bailes Road Fort Mill, SC 29707 **honeywell.com** 

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LSXA3E LSXA3K LSXA3K1 LSXA3K-1A LSXA3K-2C LSXA3K-2K LSXA3K5 LSXA3K5-1A LSXA4K LSXA4L LSXA4L-1A LSXA4L-2C LSXA4L-4M LSXA4L-5C LSXA4S LSXA7L LSXA7L-1A LSXA7S1-1C LSXA7S2-1C LSXB3K LSXB4L LSXC3K LSXC4L LSXD3K LSXD3K6 LSXD4L LSXE3K LSXE4K LSXE4L LSXF3K LSXF4L LSXH3K LSXH4K LSXH4L LSXJ3K-7A LSXJ4L-7A LSXK3K-8A LSXK4L-8A LSXL4M LSXL4M4 LSXL7M-2C LSXM4N LSXM4N-1A LSXM4N-2J LSXM4N4 LSXM4N4-1A LSXM4N5 LSXM4N5-1A LSXN3K LSXN4L LSXN7L LSXP3K LSXP3K3 LSXP4L LSXP7L LSXP7L3 LSXR3K LSXR3K-5A LSXR4L LSXR4L-1C LSXR4L-5A LSXV3K LSXV7L LSXW3K LSXYAB3K LSXYAB4L LSXYAC3K-2C LSXYBB3K LSXYCC3K LSXYDB3K LSXYDB4L LSXYMB4N LSXYMB4N-1A LSXYNB3K LSXYNB4L LSXYPB3K LSXM4U LSXZ3K LSXD7L LSXR4L-2J LSXV4L LSXYAB3K-1A LSXYAB4L-1A LSXYEC3K LSXZ1C LSXZ3L LSXZ4022 LSXYAB3E LSXN3K-1A LSXB4L-4M LSXYMB4N-2C LSXA3K-2J LSXA3K4-4M LSXA4L-1C LSXP3K-1A LSXA3K-1C LSXH3K-2C LSXYHB3K-2C LSXA4L5 LSXYAB7L