



**MICRO SWITCH™**  
Weather-Sealed,  
Explosion-Proof Switches  
**CX Series**



# MICRO SWITCH™ CX Series

## Weather-Sealed, Explosion-Proof Switches

MICRO SWITCH™ CX switches are built especially for outdoor use in hazardous atmospheres. These enclosures are constructed to withstand the pressure of an internal explosion. Flame paths cool the exploded gases to a point less than the lowest safe operating temperature of the surrounding gas.

MICRO SWITCH™ 80CX Series switches have rugged bronze housings that are designed to be resistant to salt water and other corrosive environments. They comply with the NEMA 4X requirement for protection against corrosion, in addition to NEMA enclosure standards met by other CX switches.

The product's o-ring seals make the enclosure rain tight, but are outside of required flame paths so explosion proof requirements are maintained. Unless special ordered, all basic switches operate on clockwise and counterclockwise rotation. The actuating mechanism can be field adjusted for CW or CCW operation only. No tools are required.

### ***What makes our switches better?***

- Building block design allows for digital switching outputs, or 4 mA to 20 mA analog output, or digital switching outputs with a 4 mA to 20 mA analog output
- Weather sealed to NEMA and IP ratings
- UL, CSA, ATEX, IEC Ex, INMETRO certified for hazardous (explosive) environments
- Designed with the end user in mind, these switches help to create user-friendly interfaces with broad application possibilities to help meet the challenges of many different environments
- Available with gold contacts, low-temp seals, and bronze corrosion-resistant housing



COST OPTIMIZATION  
RELIABILITY • GLOBALLY ACCEPTED

## Features and Benefits

### WELL-SUITED FOR EXPLOSIVE ENVIRONMENTS

MICRO SWITCH™ CX Series switches are certified for applicable portions of **NEMA 7 and 9** for hazardous locations (explosive environments). Select CX switches are certified to ATEX, IEC Ex, and INMETRO specifications for global applications.

### *Available with digital or analog outputs*

### WATERTIGHT AND DUST-TIGHT FOR OUTDOOR USE

Due to its engineering design and sealing (NEMA 1, 3, 4, 4X, 6, 6P, and 13), the MICRO SWITCH™ CX Series is rated for **rain, wind, snow, ice, and blowing dust environments**.

### CORROSION RESISTANT

Bronze housing material is available on 80CX Series catalog listings.

### 4 MA TO 20 MA ANALOG OUTPUT AVAILABLE

Allows for use in accurate positioning applications, such as those found on seaside grain and fuel-loading docks, oil and gas wells, refineries, chemical plants, and more.

### MEETS HAZARDOUS AREA REQUIREMENTS

UL Listed, file #E14274, Analog UL file #E68247, CSA Certified, file #LR57324, ATEX certificate KEMA 01ATEX2111 X, IEC Ex certificate IEC Ex TSA 06.003X, and INMETRO certificate TUV 14.0553.

### OPTIONAL HOUSING CHOICES

CX Series switches offer a **choice of rugged cast aluminum or bronze housings**. Both housings withstand harsh environments, and bronze is available for use in corrosive environments.

### UNIQUE DESIGN FEATURES

Featuring **field-adjustability**, the CX Series allows pretravel, overtravel, and actuating sequence to be field adjusted without tools (all basics can be adjusted individually). Rotary types convert in seconds to clockwise, counterclockwise, or both-way operation. These features **may help to reduce set up time** while allowing for quick and easy changes to switch operation.

# Potential Applications



## INDUSTRIAL

- Seaside grain and fuel loading docks that may require explosion proof and corrosion resistant switches
- Oil and gas wells, refineries, and fuel storage facilities that may require explosion proof and corrosion resistant switches
- Chemical plants with corrosive environments



Table 1. Specifications

Characteristic	Parameter
Actuators	side rotary (choice of levers), side rotary (with flat shaft), plunger actuator
Housing material	aluminum with electrostatic epoxy coating or corrosion resistant bronze
Termination	3/4 x 14 NPT, M25 x 1.5 mm conduit
Sealing	NEMA 1, 3, 4, 4X, 6, 6P, and 13; IP66
Hazardous area designations	NEMA 7: Class I, Div.1 & Div. 2, Groups B (14CX, 16CX, 24CX, 26CX, 36CX only), C, and D; NEMA 9: Class II, Div.1 & Div. 2, Groups E, F, and G ATEX/IEC Ex, INMETRO (Gas) II 2 G; Exd IIC T6 ATEX/IEC Ex, INMETRO (Dust) II 2 D; Exd tD A21 T85°C
Operating temperature	-25 °C to 85 °C [-13 °F to 185 °F]
Agency approvals	UL Listed, file #E14274, Analog UL file #E68247 CSA Certified, file #LR57324 ATEX certificate KEMA 01ATEX2111 X IEC Ex certificate IEC Ex TSA 06.003X INMETRO certificate TUV 14.0553

Table 2. Electrical Ratings (in amperes)

Rating Code	Switch Description	UL/CSA
A	BZ basic switch, SPDT	15 A 120/240/480 Vac; 1/8 HP, 120 Vac 1/4 HP, 240 Vac; 0.5 A, 125 Vdc; 0.25 A, 250 Vdc
B	BA basic switch, SPDT	20 A 120/240/480 Vac; 1 HP, 120 Vac; 2 HP, 240 Vac; 0.5 A, 125 Vdc; 0.25 A, 250 Vdc
C	DT basic switch, DPDT	10 A 120/240/480 Vac, 0.3 A 125 Vdc; 0.15 A, 250 Vdc
D	HS basic switch (hermetic sealed), SPDT	1 A, 125 Vac; 5 A, 28 Vdc
F	BZ basic switch (gold contacts) SPDT	1 A, 125 Vac

Table 3. Analog Position Sensing Specifications

Specification	Parameter
Voltage compliance range	12.5 Vdc to 40 Vdc
Replacement PC board	15PA261-CX
Current signal output	4 mA to 20 mA
Span	Adjustable from 15 ° to 90 ° of angular rotation
Null	4 mA position may be set at any angular position

# MICRO SWITCH™ Weather-Sealed, Explosion-Proof Switches

## PRODUCT NOMENCLATURE

Switch Type	1 Housing Style & Actuator Type	1 Circuitry	CX Switch Type	2 Switches	Additional Options
<b>CX Series Hazardous Area Limit Switch</b>	<b>1</b> Short housing, side rotary	<b>1</b> 15 A, SPDT basic switch/es	<b>CX</b> Momentary	<b>0</b> 4 mA to 20 mA	Non-threaded thru holes
	<b>2</b> Standard housing, side rotary	<b>2</b> 20 A, SPDT basic switch/es	<b>CX1</b> Maintained	<b>1</b> One switch	<b>A</b> Side mounting, 5/16-18(8)
	<b>3</b> Short housing, plunger actuator	<b>4</b> 10 A, DPDT basic switch/es		<b>2</b> Two switches	<b>B</b> Thru mounting, 3/8-24(4)
	<b>4</b> Standard housing, plunger actuator	<b>6</b> 1 A, SPDT, hermetically sealed basic switch/es		<b>3</b> Three switches	<b>C</b> Low temperature
	<b>6</b> Short housing, black epoxy	<b>8</b> 4 mA to 20 mA output for position sensing		<b>4</b> Four switches	<b>E</b> ATEX/IEC Ex/ INMETRO certified with cover clamp
	<b>7</b> Stand. housing, bronze material, 5/16-18 UNC-2B mtg holes	<b>172</b> 1 A, SPDT, gold-plated contacts, basic switch/es		<b>5</b> Two switches, one CW oper., one CCW oper.	<b>M</b> Metric, M25 x 1.5 conduit
	<b>8</b> Standard housing, bronze material				<b>D01</b> Flat shaft
	<b>9</b> Switch assemblies (replacement)				<b>00</b> Or other numbers, various specials

Other special configurations may be available.  
For more information, contact your Honeywell representative.

# CX Series

**Table 4. Order Guide**

When factory assembled, all basic switches operate on a clockwise and counter clockwise rotation. The actuating mechanism can be field adjusted for CW or CCW operation only. No tools are required. For listings not shown, contact your Honeywell representative.

	Cat. Listing <sup>1</sup>	Housing Material	Cover Size	Switch Action <sup>2</sup>	Basic Switch Type, Quantity, Circuitry	Electrical Rating (Page 4)
	<b>11CX12</b>	Epoxy-coated aluminum	Short	Maintained	BZ (2), SPDT each	A (15 A)
	<b>11CX12E</b>	Epoxy-coated aluminum	Short	Maintained	BZ (2), SPDT each	A (15 A)
	<b>11CX2</b>	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	A (15 A)
	<b>11CX2E</b>	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	A (15 A)
	<b>1172CX2</b>	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	F (1 A)
	<b>11CX5C</b>	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	A (15 A)
	<b>11CX212</b>	Epoxy-coated aluminum	Short	Maintained	BZ (2), SPDT each	A (15 A)
	<b>12CX12</b>	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	<b>12CX12-D01</b>	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	<b>12CX15-D01</b>	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	<b>12CX2</b>	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	<b>12CX2A</b>	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	<b>12CX2AE</b>	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	<b>12CX5E</b>	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	<b>12CX200</b>	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	<b>14CX1E</b>	Epoxy-coated aluminum	Short	Momentary	DT (1), DPDT	C (10 A)
	<b>16CX1</b>	Epoxy-coated aluminum	Short	Momentary	HS (1), SPDT	D (1 A)
	<b>16CX1E</b>	Epoxy-coated aluminum	Short	Momentary	HS (1), SPDT	D (1 A)
	<b>16CX2</b>	Epoxy-coated aluminum	Short	Momentary	HS (2), SPDT each	D (1 A)
	<b>16CX2C</b>	Epoxy-coated aluminum	Short	Momentary	HS (2), SPDT each	D (1 A)
	<b>16CX12</b>	Epoxy-coated aluminum	Short	Maintained	HS (2), SPDT each	D (1 A)
	<b>18CX0</b>	Epoxy-coated aluminum	Short	Momentary	—	—
	<b>18CX10</b>	Epoxy-coated aluminum	Short	Maintained	—	—
	<b>21CX4</b>	Epoxy-coated aluminum	Standard	Momentary	BZ (4), SPDT each	A (15 A)
	<b>21CX12F</b>	Epoxy-coated aluminum	Standard	Maintained	BZ (2), SPDT each	A (15 A)
	<b>21CX14</b>	Epoxy-coated aluminum	Standard	Maintained	BZ (4), SPDT each	A (15 A)
	<b>22CX4</b>	Epoxy-coated aluminum	Standard	Momentary	BA (4), SPDT each	B (20 A)
	<b>24CX2</b>	Epoxy-coated aluminum	Standard	Momentary	DT (2), DPDT each	C (10 A)
	<b>26CX4</b>	Epoxy-coated aluminum	Standard	Momentary	HS (4) SPDT each	D (1 A)
	<b>26CX14</b>	Epoxy-coated aluminum	Standard	Maintained	HS (4) SPDT each	D (1 A)
	<b>26CX16</b>	Epoxy-coated aluminum	Standard	Maintained	HS (4) SPDT each	D (1 A)
	<b>281CX12</b>	Epoxy-coated aluminum	Standard	Maintained	BZ (2) SPDT each	A (15 A)
	<b>281CX12E</b>	Epoxy-coated aluminum	Standard	Maintained	BZ (2) SPDT each	A (15 A)
	<b>74CX2</b>	Bronze	Standard	Momentary	DT (2) DPDT each	D (10 A)
	<b>81CX2</b>	Bronze	Standard	Momentary	BZ (2) SPDT each	A (15 A)
	<b>82CX2A</b>	Bronze	Standard	Momentary	BA (2) SPDT each	B (20 A)

<sup>1</sup> Basic switches operate nearly simultaneously in multiple switch devices

<sup>2</sup> Shafts of devices without spring return can be rotated through 360°

# MICRO SWITCH™ Weather-Sealed, Explosion-Proof Switches

Operating Torque Nm [In-lb]	Pretravel max.	Differential Travel max.	Overtravel min.	Options	Comments
0,5 Nm [4.42 in-lb]	15°	10°	90°	–	–
0,5 Nm [4.42 in-lb]	15°	10°	90°	ATEX/IEC Ex/INMETRO certified	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	–	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	ATEX/IEC Ex/INMETRO certified	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	–	Gold-plated switch contacts
1,25 Nm [11.1 in-lb]	15°	10°	90°	Low temperature seals	1 switch operates CW, 1 switch operates CCW
0,5 Nm [4.42 in-lb]	15°	10°	90°	–	Cam provides ~ 30° actuation in 360° rotation for each basic switch
0,5 Nm [4.42 in-lb]	15°	10°	90°	–	–
0,5 Nm [4.42 in-lb]	15°	10°	90°	Flat shaft for direct coupling	–
0,5 Nm [4.42 in-lb]	15°	10°	90°	Flat shaft for direct coupling	1 switch operates CW, 1 switch operates CCW
1,25 Nm [11.1 in-lb]	15°	10°	90°	–	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	Threaded mounting holes, side (8)	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	Threaded mounting holes, side (8), ATEX/IEC Ex/INMETRO certified	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	ATEX/IEC Ex/INMETRO certified	1 switch operates CW, 1 switch operates CCW
0,5 Nm [4.42 in-lb]	–	–	–	–	Cam provides approximately 30° actuation in 360° rotation for each basic switch
1,25 Nm [11.1 in-lb]	30°	25°	75°	ATEX/IEC Ex/INMETRO certified	–
1,25 Nm [11.1 in-lb]	30°	20°	75°	–	Hermetic sealed basic switch
1,25 Nm [11.1 in-lb]	30°	20°	75°	ATEX/IEC Ex/INMETRO certified	Hermetic sealed basic switch
1,25 Nm [11.1 in-lb]	30°	20°	75°	–	Hermetic sealed basic switches
1,25 Nm [11.1 in-lb]	30°	20°	75°	Low temperature seals	Hermetic sealed basic switches
0,5 Nm [4.42 in-lb]	30°	20°	75°	–	Hermetic sealed basic switches
0,5 Nm [4.42 in-lb]	–	–	–	Analog position sensing	4 mA to 20 mA
0,5 Nm [4.42 in-lb]	–	–	–	Analog position sensing	4 mA to 20 mA
1,25 Nm [11.1 in-lb]	15°	10°	90°	–	–
0,5 Nm [4.42 in-lb]	15°	10°	90°	–	Two basic switches. 4 sets of cams & return springs
0,5 Nm [4.42 in-lb]	15°	10°	90°	–	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	–	–
1,25 Nm [11.1 in-lb]	30°	25°	75°	–	–
1,25 Nm [11.1 in-lb]	30°	20°	75°	–	Hermetic sealed basic switches
0,5 Nm [4.42 in-lb]	30°	20°	75°	–	Hermetic sealed basic switches
0,5 Nm [4.42 in-lb]	30°	20°	75°	–	Hermetic sealed basic switches, two switches operate CW, two switches operate CCW
0,5 Nm [4.42 in-lb]	15°	10°	90°	Analog position sensing (4 mA to 20 mA)	–
0,5 Nm [4.42 in-lb]	15°	10°	90°	Analog position sensing (4 mA to 20 mA), ATEX/IEC Ex/INMETRO certified	–
1,25 Nm [11.1 in-lb]	30°	25°	75°	–	Threaded mounting holes, side (8)
1,25 Nm [11.1 in-lb]	15°	10°	90°	–	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	Threaded mounting holes, side (8)	–

# CX Series

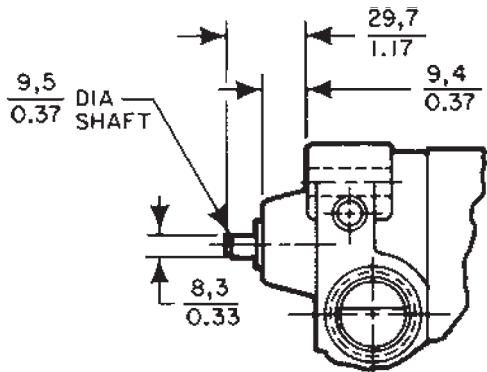
## ASSEMBLY MODIFICATIONS

### MODIFIED SHAFT ENABLES DIRECT COUPLING

CX switches are available with a 3/8 inch diameter by 3/4 inch long flattened shaft which conforms to standard NEMA motor shaft specifications. It accepts commercially available shaft couplers, permitting easy, direct coupling to most equipment actuators.

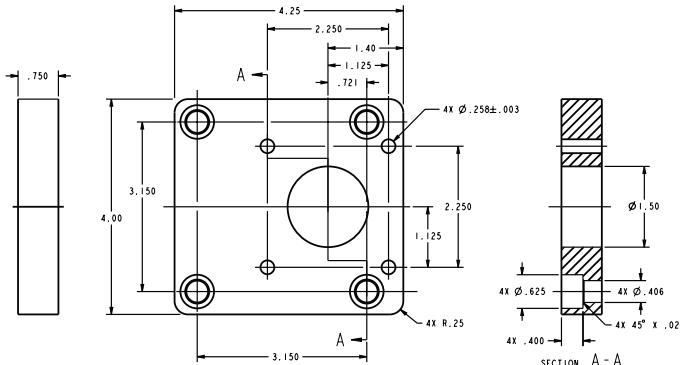
To specify a "direct-couple" CX switch: Add-**DO1** to catalog listings shown in the order guides, i.e. 11CX12-**DO1**.

### Flattened Shaft Version



### MOUNTING BRACKETS

15PA500-CX adapter bracket for mounting CX products to NAMUR footprint is available upon request.



### Mounting Holes

Add the letter **A** to listings with side mounting holes tapped 5/16-18(8). Example: 11CX2**A**

Add the letter **B** to listings with thru mounting holes tapped 3/8-24(4). Example: 11CX2**B**.

### CX Series Replacement Basic Switch Assemblies

These assemblies are factory-adjusted to the same operating characteristics as a new CX switch. They include components subject to mechanical or electrical wear: basic switches, cams, cam followers, and springs.

To order, change the first number in the complete switch catalog listing to **9** for rotary switches. For example:

Rotary switch 11CX2 Replacement = **9**1CX2

Note: Basic switch assemblies for rotary actuated switches, with or without spring return, will be the same.

For example: 11CX2 and 11CX12 use **9**1CX2.

### Low Temperature Switches

Add the letter **C** to listings for low temperature versions

For example: 21CX14**C** = -40 °F [-40 °C] Rotary

# MICRO SWITCH™ Weather-Sealed, Explosion-Proof Switches

**Table 6. Rotary Levers**

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.

						
<b>Fixed lever, nylon roller</b> LSZ51A - front mount roller LSZ51C - back mount roller	<b>Short fixed lever, nylon roller</b> LSZ59A - front mount roller LSZ59C - back mount roller	<b>Offset lever, nylon roller</b> LSZ55A - back mount roller LSZ55C - front mount roller				
						
<b>One-way lever, nylon roller</b> LSZ60A - front mount roller	<b>Yoke lever, nylon rollers</b> LSZ53A - front/back mount rollers					
						
<b>Adj. lever, nylon roller</b> LSZ52A - back mount roller LSZ52C - front mount roller	<b>LSZ52J</b> adjustable lever, nylon roller 25,4 mm [1 in]	<b>LSZ52K</b> adjustable lever, nylon roller 38,1 [1.5 in]	<b>LSZ54M</b> aluminum rod 140 mm [5.5 in]	<b>LSZ61</b> loop 152 mm [6 in]	<b>LSZ67CA**</b> Plastic conveyor roller	<b>LSZ68</b> rod w/ spring 305 mm [12 in]

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

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

# CX Series

Table 7. Rotary Levers Order Guide

Catalog Listing	Material	Roller Dia. mm [in]	Roller Width mm [in]	Roller Mounting
<b>Fixed – 38,1 [1.5] inch radius</b>				
LSZ51	Rollerless	n/a	n/a	n/a
LSZ51A	Nylon	19 [0.75]	6,35 [0.25]	Front
LSZ51C	Nylon	19 [0.75]	6,35 [0.25]	Back
LSZ51F	Nylon	25,4 [1.0]	12,7 [0.50]	Front
LSZ51G	Nylon	38,1 [1.5]	6,35 [0.25]	Front
LSZ51J	Nylon	25,4 [1.0]	12,7 [0.50]	Back
LSZ51M	Nylon	19 [0.75]	31,7 [1.25]	Back
LSZ51P	Nylon	19 [0.75]	12,7 [0.50]	Front
LS2251A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front
LS2251C (sst)	Nylon	19 [0.75]	6,35 [0.25]	Back
LS2251E (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Front
LS2251F (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Back
<b>Adjustable – 38,1 [1.5] in to 3.5 in radius</b>				
LSZ52	Rollerless	n/a	n/a	n/a
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
LSZ52J	Nylon	25,4 [1.0]	12,7 [0.50]	Front
LSZ52K	Nylon	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
LSZ52A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front
LSZ52C (sst)	Nylon	19 [0.75]	6,35 [0.25]	Back
LSZ52E (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Front
LSZ52F (sst)	Copper alloy	19 [0.75]	6,35 [0.25]	Back
<b>Yoke – 38,1 [1.5] in radius</b>				
LSZ53A	Nylon	19 [0.75]	6,35 [0.25]	Front/Back
LSZ53E	Nylon	19 [0.75]	6,35 [0.25]	Back/Front
LSZ53M	Nylon	19 [0.75]	31,7 [1.25]	Back/Front
LSZ53S	Nylon	19 [0.75]	6,35 [0.25]	Back/Back
<b>Rod</b>				
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]	Ø 6,85 [Ø 0.27]	n/a	n/a
LSZ54W	Plastic rod, 183 mm [7.2 in]	Ø 6,85 [Ø 0.27]	n/a	n/a
<b>Offset – 38,1 [1.5] in radius</b>				
LSZ55	Rollerless	n/a	n/a	n/a
LSZ55A	Nylon	19 [0.75]	6,35 [0.25]	Back
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
<b>Short fixed – 1.3 in radius</b>				
LSZ59A	Nylon	19 [0.75]	6,35 [0.25]	Front
LSZ59C	Nylon	19 [0.75]	6,35 [0.25]	Back
<b>One-way roller lever</b>				
LSZ60A	Nylon	19 [0.75]	6,35 [0.25]	Front
<b>Flexible loop</b>				
LSZ61	Ø 4.8 [Ø 0.19] Nylatron	152 mm [6 in] flexible loop		
LSZ618	Ø 4.8 [Ø 0.19] Nylatron	241 mm [9.5 in] flexible loop		
LSZ54	Hub only	n/a	n/a	n/a
<b>Spring rod</b>				
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
<b>Rubber roller levers</b>				
LSZ51Y	Rubber	50 [2.0]	12,7 [0.5]	front
38,1 [1.5] radius (standard)				
LSZ55Y	Rubber	50 [2.0]	12,7 [0.5]	front
38,1 [1.5] radius (offset)				
LSZ52Y	Rubber	50 [2.0]	12,7 [0.5]	front
38,1 to 89 [1.5 to 3.5] radius (adjustable)				
<b>Plastic roller levers</b>				
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.

# MICRO SWITCH™ Weather-Sealed, Explosion-Proof Switches

## DIMENSIONS mm[in]

Figure 1. MICRO SWITCH™ CX - side rotary standard housing

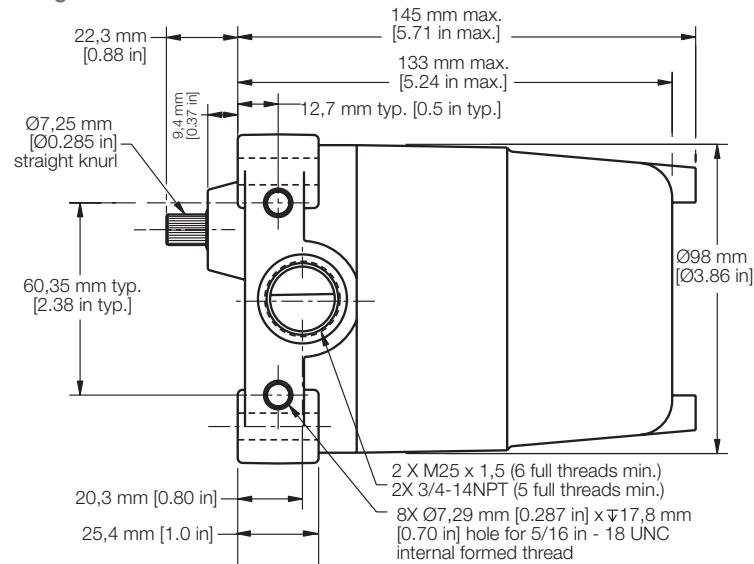
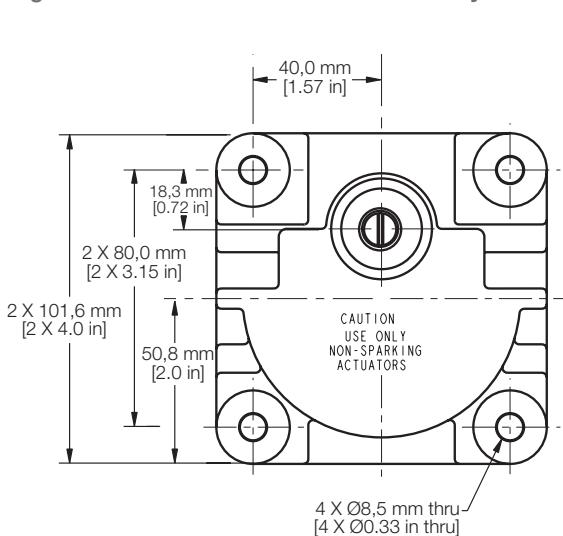


Figure 2. MICRO SWITCH™ CX - side rotary short housing

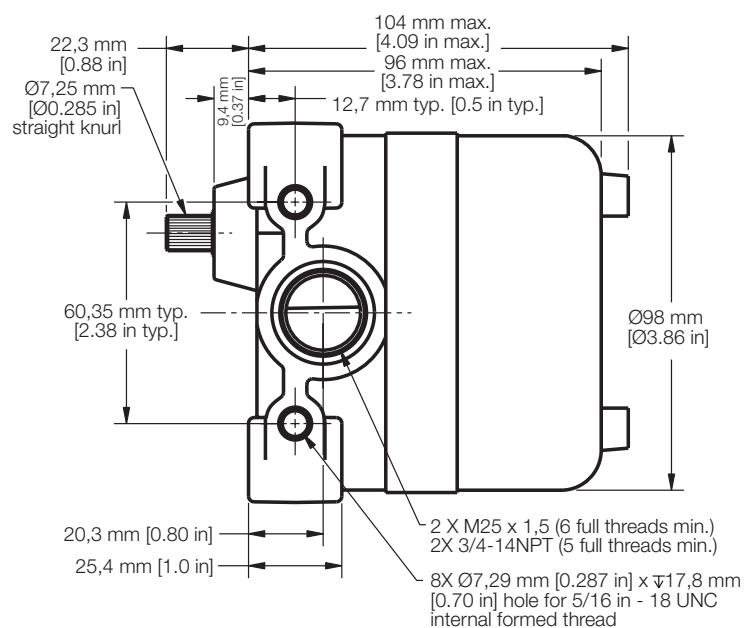
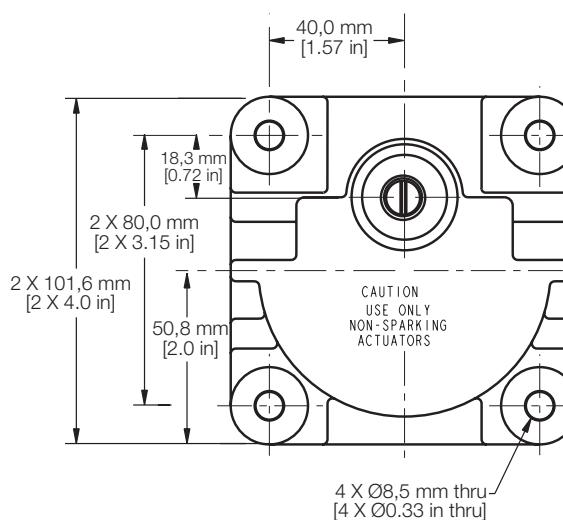
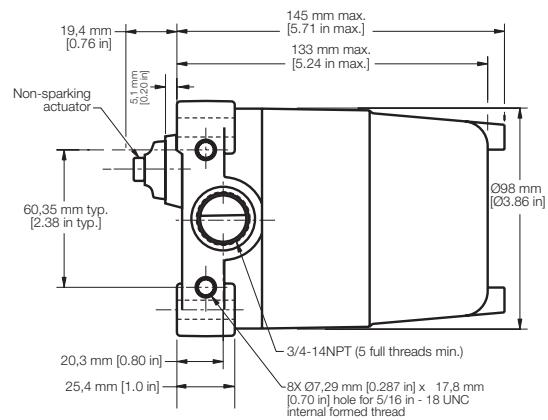
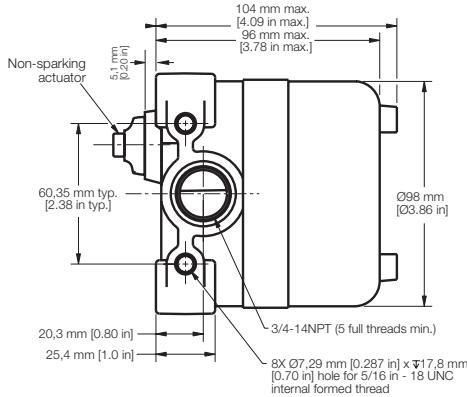
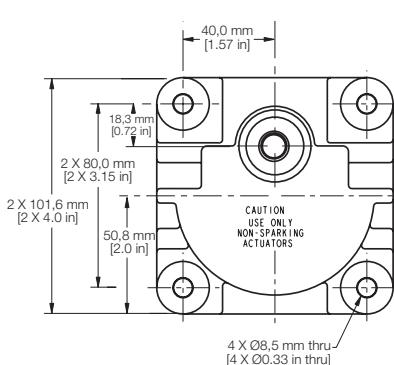


Figure 3. MICRO SWITCH™ CX - plunger standard and short housing

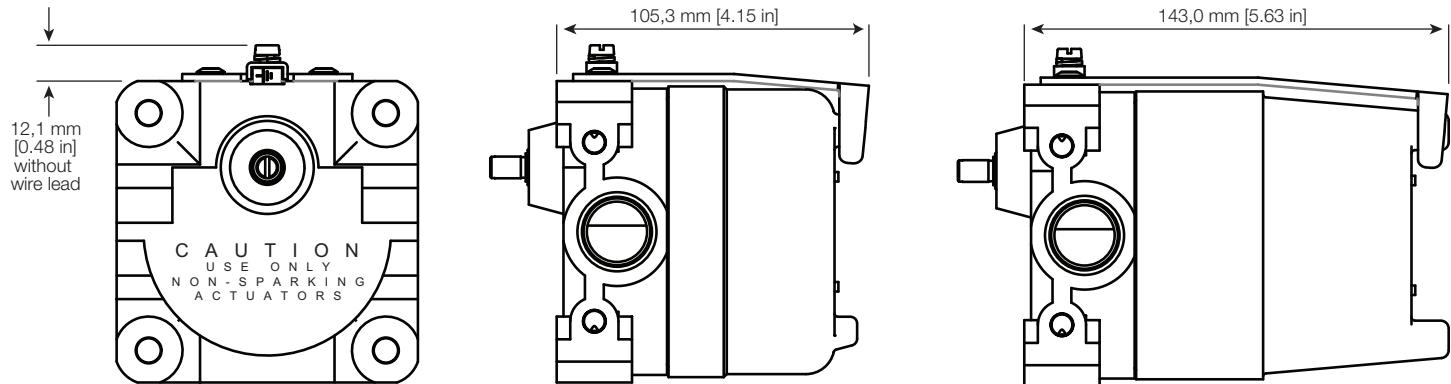


# CX Series

## ATEX COVER CLAMP ASSEMBLY

### FOR EUROPEAN COMPLIANCE

To specify a CX switch with ATEX, IEC Ex, or INMETRO certifications, add the letter "E" to the end of the catalog listing: 11CX2E.



## ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell web site at [sensing.honeywell.com](http://sensing.honeywell.com):

- Product installation instructions
- Product range guide
- Product nomenclature tree
- MICRO SWITCH™ Hazardous Area Switches Brochure
- Product application-specific information
  - Limit and enclosed switch reference standards
  - Application Note: Sensors and switches for industrial manual process valves
  - Application Note: Sensors and switches in oil rig applications
  - Application Note: Sensors and switches n valve actuators and valve positioners
  - Application Note: Sensors and switches in valves and flow meters

### **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 switching products, call **+1-815-235-6847** or **1-800-537-6945**, visit [sensing.honeywell.com](http://sensing.honeywell.com), or e-mail inquiries to [info.sc@honeywell.com](mailto:info.sc@honeywell.com)

Sensing and Productivity Solutions

Honeywell

1985 Douglas Drive North  
Golden Valley, MN 55422

[honeywell.com](http://honeywell.com)



# OCEAN CHIPS

## Океан Электроники

### Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибутором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибутором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



Телефон: 8 (812) 309-75-97 (многоканальный)

Факс: 8 (812) 320-03-32

Электронная почта: ocean@oceanchips.ru

Web: <http://oceanchips.ru/>

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, д. 2, корп. 4, лит. А