Honeywell

MICRO SWITCH™ Weather-Sealed, Explosion-Proof Switches

CX Series

Datasheet

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 certiticate 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
CX Series Hazardous Area Limit Switch	**1** Short housing, side rotary	**1** 15 A, SPDT basic switch/es	**CX** Momentary	**0** 4 mA to 20 mA	Non-threaded thru holes
	2 Standard housing, side rotary	**2** 20 A, SPDT basic switch/es	**CX1** Maintained	**1** One switch	**A** Side mounting, 5/16-18(8)
	3 Short housing, plunger actuator	**4** 10 A, DPDT basic switch/es		**2** Two switches	**B** Thru mounting, 3/8-24(4)
	4 Standard housing, plunger actuator	**6** 1 A, SPDT, hermetically sealed basic switch/es		**3** Three switches	**C** Low temperature
	6 Short housing, black epoxy	**8** 4 mA to 20 mA output for position sensing		**4** Four switches	**E** ATEX/IEC Ex/ INMETRO certified with cover clamp
	7 Stand. housing, bronze material, 5/16-18 UNC-2B mtg holes	**172** 1 A, SPDT, gold-plated contacts, basic switch/es		**5** Two switches, one CW oper., one CCW oper.	**M** Metric, M25 x 1.5 conduit
	8 Standard housing, bronze material				**D01** Flat shaft
	9 Switch assemblies (replacement)				**00** 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[1]	Housing Material	Cover Size	Switch Action[2]	Basic Switch Type, Quantity, Circuitry	Electrical Rating (Page 4)
	11CX12	Epoxy-coated aluminum	Short	Maintained	BZ (2), SPDT each	A (15 A)
	11CX12E	Epoxy-coated aluminum	Short	Maintained	BZ (2), SPDT each	A (15 A)
	11CX2	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	A (15 A)
	11CX2E	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	A (15 A)
	1172CX2	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	F (1 A)
	11CX5C	Epoxy-coated aluminum	Short	Momentary	BZ (2), SPDT each	A (15 A)
	11CX212	Epoxy-coated aluminum	Short	Maintained	BZ (2), SPDT each	A (15 A)
	12CX12	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	12CX12-D01	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	12CX15-D01	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	12CX2	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	12CX2A	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	12CX2AE	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	12CX5E	Epoxy-coated aluminum	Short	Momentary	BA (2), SPDT each	B (20 A)
	12CX200	Epoxy-coated aluminum	Short	Maintained	BA (2), SPDT each	B (20 A)
	14CX1E	Epoxy-coated aluminum	Short	Momentary	DT (1), DPDT	C (10 A)
	16CX1	Epoxy-coated aluminum	Short	Momentary	HS (1), SPDT	D (1 A)
	16CX1E	Epoxy-coated aluminum	Short	Momentary	HS (1), SPDT	D (1 A)
	16CX2	Epoxy-coated aluminum	Short	Momentary	HS (2), SPDT each	D (1 A)
	16CX2C	Epoxy-coated aluminum	Short	Momentary	HS (2), SPDT each	D (1 A)
	16CX12	Epoxy-coated aluminum	Short	Maintained	HS (2), SPDT each	D (1 A)
	18CX0	Epoxy-coated aluminum	Short	Momentary	–	–
	18CX10	Epoxy-coated aluminum	Short	Maintained	–	–
	21CX4	Epoxy-coated aluminum	Standard	Momentary	BZ (4), SPDT each	A (15 A)
	21CX12F	Epoxy-coated aluminum	Standard	Maintained	BZ (2), SPDT each	A (15 A)
	21CX14	Epoxy-coated aluminum	Standard	Maintained	BZ (4), SPDT each	A (15 A)
	22CX4	Epoxy-coated aluminum	Standard	Momentary	BA (4), SPDT each	B (20 A)
	24CX2	Epoxy-coated aluminum	Standard	Momentary	DT (2), DPDT each	C (10 A)
	26CX4	Epoxy-coated aluminum	Standard	Momentary	HS (4) SPDT each	D (1 A)
	26CX14	Epoxy-coated aluminum	Standard	Maintained	HS (4) SPDT each	D (1 A)
	26CX16	Epoxy-coated aluminum	Standard	Maintained	HS (4) SPDT each	D (1 A)
	281CX12	Epoxy-coated aluminum	Standard	Maintained	BZ (2) SPDT each	A (15 A)
	281CX12E	Epoxy-coated aluminum	Standard	Maintained	BZ (2) SPDT each	A (15 A)
	74CX2	Bronze	Standard	Momentary	DT (2) DPDT each	D (10 A)
	81CX2	Bronze	Standard	Momentary	BZ (2) SPDT each	A (15 A)
	82CX2A	Bronze	Standard	Momentary	BA (2) SPDT each	B (20 A)

[1] Basic switches operate nearly simultaneously in multiple switch devices

[2] Shafts of devices without spring return can be rotated through 360°

MICRO SWITCH™ Weather-Sealed, Explosion-Proof Switches

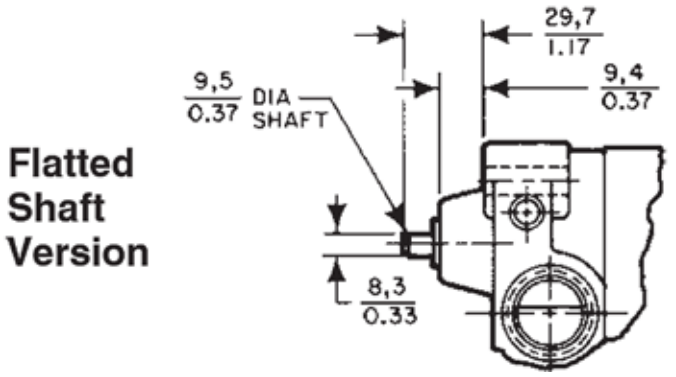
Operating Torque Nm [In-lb]	Pretravel max.	Differential Travel max.	Overtravel min.	Options	Comments
0,5 Nm [4.42 in-lb]	15°	10°	90°	–	–
0,5 Nm [4.42 in-lb]	15°	10°	90°	ATEX/IEC Ex/INMETRO certified	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	–	–
1,25 Nm [11.1 in-lb]	15°	10°	90°	ATEX/IEC Ex/INMETRO certified	–
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°	–	–
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°	Flat shaft for direct coupling	–
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)	–

ASSEMBLY MODIFICATIONS

MODIFIED SHAFT ENABLES DIRECT COUPLING

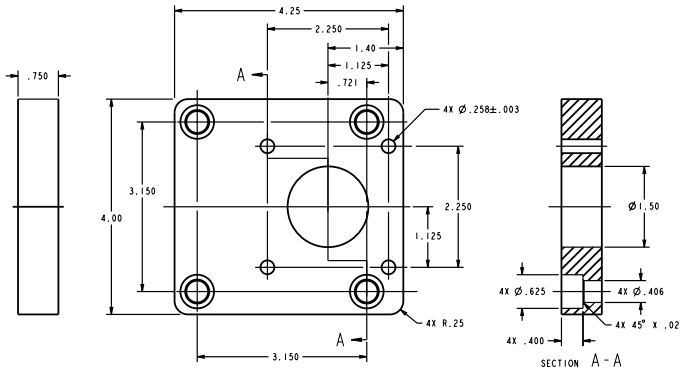
CX switches are available with a 3⁄8 inch diameter by 3⁄4 inch long flatted shaft which conforms to standard NEMA motor shaft specifications. It accepts commercially available shaft couplers, permitting easy, direct coupling to most equipment actuators.

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



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.

<table>
<tr>
<td> </td>
<td> </td>
<td> </td>
</tr>
<tr>
<td>Fixed lever, nylon roller
LSZ51A - front mount roller
LSZ51C - back mount roller</td>
<td>Short fixed lever, nylon roller
LSZ59A - front mount roller
LSZ59C - back mount roller</td>
<td>Offset lever, nylon roller
LSZ55A - back mount roller
LSZ55C - front mount roller</td>
</tr>
<tr>
<td> </td>
<td> </td>
<td rowspan="2"> </td>
<td rowspan="2"> </td>
</tr>
<tr>
<td>One-way lever, nylon roller
LSZ60A - front mount roller</td>
<td colspan="2">Yoke lever, nylon rollers
LSZ53A - front/back mount rollers</td>
</tr>
<tr>
<td> </td>
<td> </td>
<td> </td>
<td> </td>
<td> </td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adj. lever, nylon roller
LSZ52A - back mount roller
LSZ52C - front mount roller</td>
<td>LSZ52J
adjustable lever,
nylon roller
25,4 mm [1 in]</td>
<td>LSZ52K
adjustable lever,
nylon roller
38,1 [1.5 in]</td>
<td>LSZ54M
aluminum rod
140 mm [5.5 in]</td>
<td>LSZ61
loop
152 mm [6 in]</td>
<td>LSZ67CA**
Plastic conveyor roller</td>
<td>LSZ68
rod w/ spring
305 mm [12 in]</td>
</tr>
</table>

** 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
Fixed – 38,1 [1.5] inch radius					
	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
	LS2Z51A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front
	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 [1.5] in to 3.5 in radius					
	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
	LS2Z52A (sst)	Nylon	19 [0.75]	6,35 [0.25]	Front
	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
Yoke – 38,1 [1.5] in radius					
	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
Rod					
	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 [1.5] in radius					
	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
Short fixed – 1.3 in radius					
	LSZ59A	Nylon	19 [0.75]	6,35 [0.25]	Front
	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					
	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
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 roller 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
	LSZ52Y 38,1 to 89 [1.5 to 3.5] radius (adjustable)	Rubber	50 [2.0]	12,7 [0.5]	front
Plastic roller levers					
	LSZ67AA (conveyor)*	Plastic	38,1 [1.5]	96,5 [3.8]	n/a

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

MICRO SWITCH™ Weather-Sealed, Explosion-Proof Switches

DIMENSIONS mm[in]

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

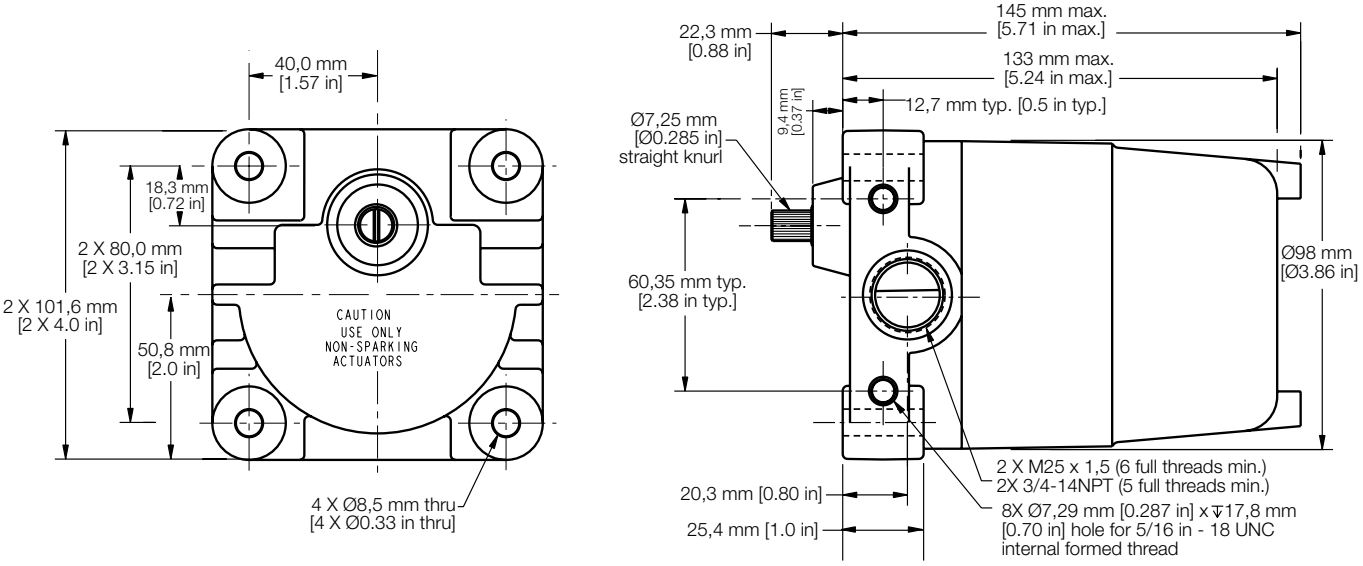


Figure 2. MICRO SWITCH™ CX - side rotary short housing

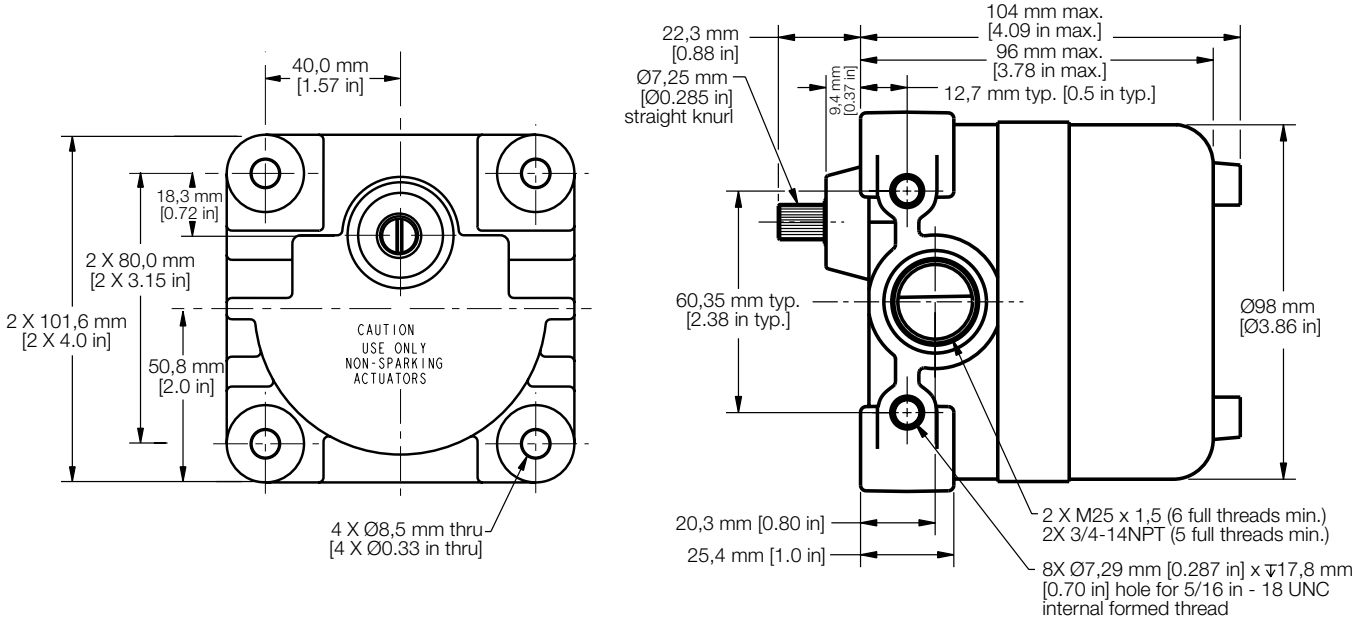
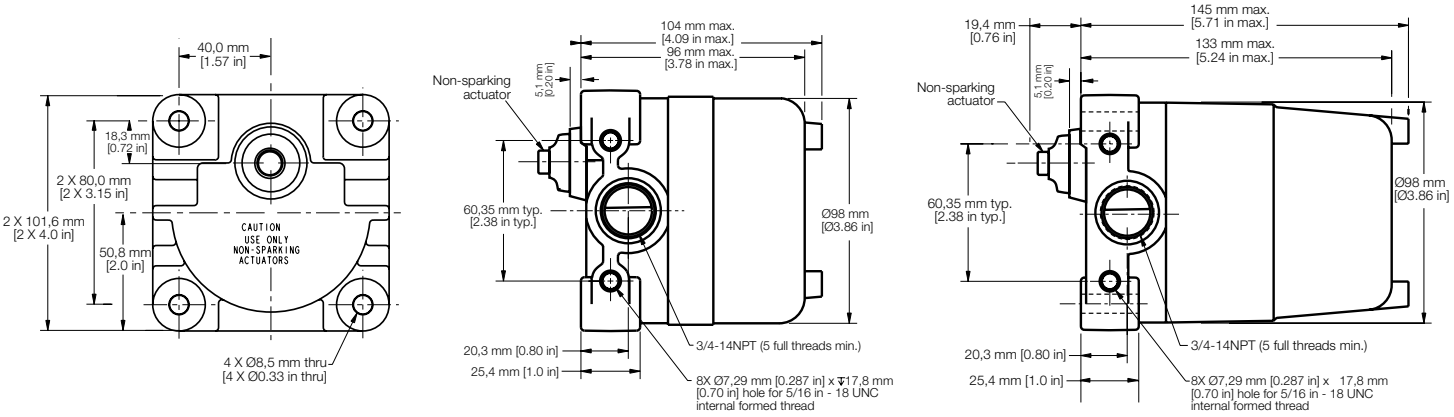


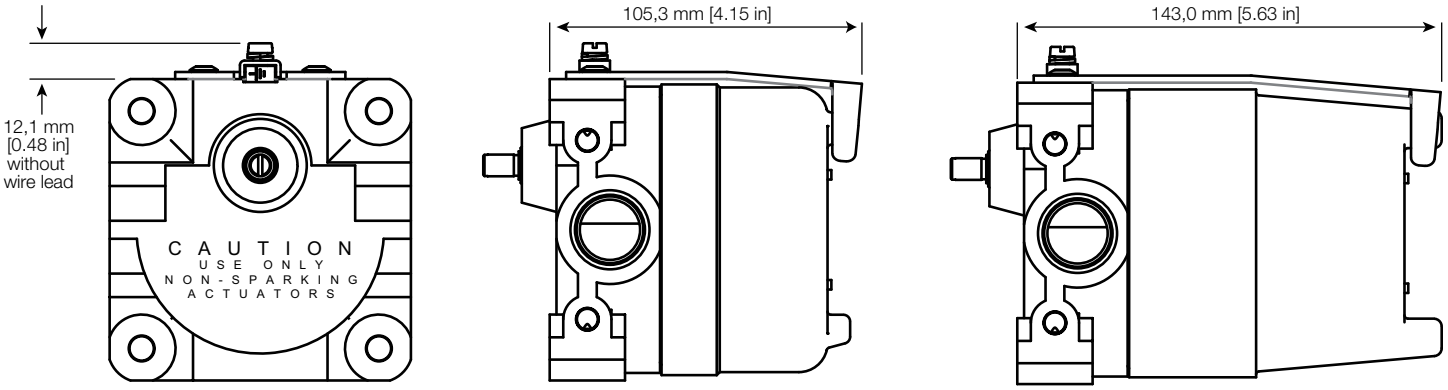
Figure 3. MICRO SWITCH™ CX - plunger standard and short housing



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: 11CX2**E**.



This Honeywell datasheet supports the following MICRO SWITCH™ CX Series Hazardous Location Switch Listings

1172CX12
1172CX2
11CX1
11CX11B-D01
11CX12
11CX12C
11CX12-D01
11CX12E
11CX12HM
11CX12HM-D01
11CX12HM-D01E
11CX15-D01
11CX1B-D01
11CX1C
11CX1E
11CX2
11CX212
11CX2B
11CX2-D01E
11CX2E
11CX2HM
11CX5C
11CX5CE
12CX1
12CX106
12CX12
12CX12-D01
12CX15
12CX15-D01
12CX2
12CX200
12CX200E
12CX200ME
12CX2A
12CX2AE
12CX2E
12CX5
12CX5A
12CX5A-2A
12CX5E
14CX1
14CX11
14CX1E
15PA148-CX
15PA261-CX
15PA500-CX
16CX1
16CX12
16CX12B-D01
16CX12C
16CX1C
16CX1E
16CX2
16CX200
16CX2C
16CX2E
16CX5C
18CX0
18CX0HM
18CX10
18CX106
18CX10E
18CX10HM
18CX10HM-D01
18CX10HM-D01E
2172CX14C
21CX12
21CX12F
21CX12F-D01
21CX13
21CX14
21CX14C
21CX14-D01
21CX14E
21CX16
21CX16E
21CX4
21CX4C
21CX4E
21CX4HM
21CX6
22CX4
24CX12
24CX12HM-D01
24CX2
24CX200
24CX2A-2A
24CX2E
24CX5A
26CX14
26CX16
26CX4
26CX4C
27CX100
27CX100E
281CX12
281CX12E
281CX12HM
281CX12HM-D01
281CX12HM-D01E
281CX12HME
281CX2
281CX2HM
284CX106
284CX12
284CX2
286CX2E
3172CX2
31CX1
31CX1E
36CX1
36CX1E
41CX4
61CX11-D01
61CX12-D01
64CX12-D01
74CX2
8172CX2
81CX14
81CX2
81CX4
82CX2
82CX2A
84CX12
84CX2
86CX2
9172CX4
91CX2
91CX4
92CX2
92CX200
92CX5
94CX2
96CX1

ADDITIONAL INFORMATION

The following associated literature is available on the Honeywell web site at 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

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

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LifeElectronics
Живое партнерство

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ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703

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- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
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