## Honeywell



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



Datasheet

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
- 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.

#### **MEETS HAZARDOUS AREA REQUIREMENTS**

UL Listed, file #E14274, 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 Parameter					
Actuators	side rotary (choice of levers), side rotary (with flat shaft), plunger actuator					
lousing 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 ID A21 T85°C					
Operating temperature	-25 °C to 85 °C [-13 °F to 185 °F]					
Agency approvals	UL Listed, file #E14274  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			
А	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			
В	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			
С	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			

#### **PRODUCT NOMENCLATURE**

Switch Type		Housing Style & Actuator Type		Circuitry		CX Switch Type		2 Switches		Additional Options
<b>CX</b> Series	1	Short housing, side rotary	1	15 A, SPDT basic switch/es	СХ	Momentary	1	One switch		Non-threaded thru holes
Hazardous Area	2	Standard housing, side rotary	2	20 A, SPDT basic switch/es	CX1	Maintained	2	Two switches	A	Side mounting, 5/16-18(8)
Limit Switch	3	Short housing, plunger actuator	4	10 A, DPDT basic switch/es			3	Three switches	В	Thru mounting, 3/8-24(4)
	4	Standard housing, plunger actuator	6	1 A, SPDT, hermetically sealed basic switch/es			4	Four switches	C	Low temperature
	6	Short housing, black epoxy	17	1 A, SPDT, gold- plated contacts, basic switch/es			5	Two switches, one CW oper., one CCW oper.	E	ATEX/IEC Ex/ INMETRO certified with cover clamp
	7	Stand. housing, bronze material, 5/16-18 UNC-2B mtg holes							M	Metric, M25 x 1.5 conduit
	8	Standard housing, bronze material							D	1 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.

#### Table 3. 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	Electri- cal Rating
	110710		01 1	NA 1 1 1 1	D7 (0) 0DDT 1	(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)
Sommer &	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)
	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)
1000 Page	22CX4	Epoxy-coated aluminum	Standard	Momentary	BA (4), SPDT each	B (20 A)
Orana 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)
	74CX2	Bronze	Standard	Momentary	DT (2) DPDT each	D (10 A)
- Control of	81CX2	Bronze	Standard	Momentary	BZ (2) SPDT each	A (15 A)
	82CX2A	Bronze	Standard	Momentary	BA (2) SPDT each	B (20 A)

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

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

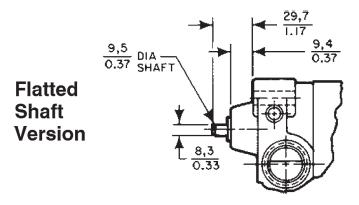
Operating Torque	Pretravel	Differential	Overtravel	Options	Comments
Nm [In-lb]	max.	Travel max.	min.		
0,5 Nm [4.42 in-lb]	15°	10°	90°	_	-
0,5 Nm [4.42 in-lb]	15°	10°	90°	ATEX/IEC Ex/INMETRO certified	-
1,25 Nm [11.1 in-lb]	15°	10°	90°	_	-
1,25 Nm [11.1 in-lb]	15°	10°	90°	ATEX/IEC Ex/INMETRO certified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

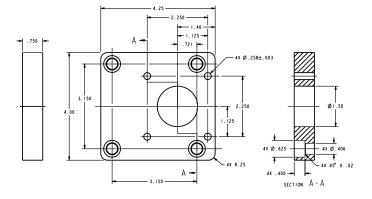
CX switches are available with a 3/8 inch diameter by 3/4 inch long flatted shaft which conforms to standard NEMA motor shaft specifications. It accepts commercially available shaft couplers, permitting easy, direct coupling to most equipment actuators.

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 = 91CX2

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

For example: 11CX2 and 11CX12 use 91CX2.

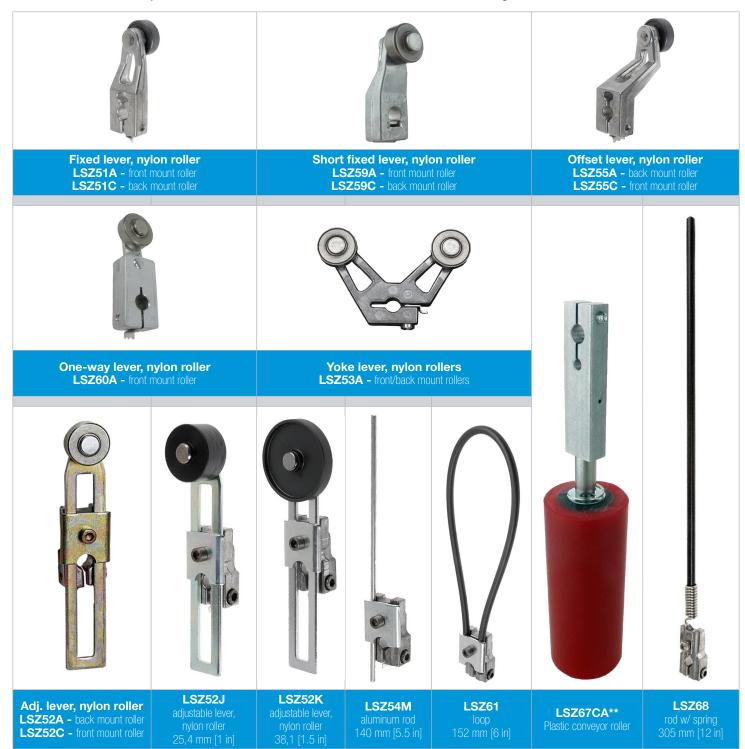
#### **Low Temperature Switches**

Add the letter C to listings for low temperature versions

For example:  $21CX14C = -40 \,^{\circ}F [-40 \,^{\circ}C]$  Rotary

#### **Table 4. 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.



<sup>\*\*</sup> 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.

Table 5. Rotary Levers Order Guide

	Catalog Listing	Material	Roller Dia. mm [in]	Roller Width mm [in]	Roller Mounting
	Fixed - 38.1	[1.5] inch rac		Lini	
	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
TI	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			
	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
6	LSZ52K	Nylon	38,1 [1.5]	6,35 [0.25]	Front
	LSZ52M	Nylon	50,8 [2.0]	6,35 [0.25]	Front
9 194 7	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
Silver and the second	LS2Z52F (sst)	Copper allov	19 [0.75]	6,35 [0.25]	Back
		[1.5] in radius		0,00 [0.20]	
	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
in c	LSZ54W	Plastic rod, 183 mm [7.2 in]	Ø6,85 [Ø 0.27]	n/a	n/a
	Offset - 38,	1 [1.5] in radio		n/o	n/a
	LSZ55A	Nylon	n/a 19 [0.75]	n/a 6,35 [0.25]	n/a Back
5	LSZ55A LSZ55C	-			Front
		Nylon	19 [0.75]	6,35 [0.25]	
	LSZ55E	Nylon	19 [0.75]	12,7 [0.50]	Front
9 .	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 -	rmi			
	LSZ59A	Nylon	19 [0.75]	6,35 [0.25]	Front
Q	LSZ59C	Nylon	19 [0.75]	6,35 [0.25]	Back
	One-way rol	ller lever			
	LSZ60A	Nylon	19 [0.75]	6,35 [0.25]	Front
	Flexible loop	0			
	LSZ61	Ø 4,8 [Ø 0.19 ] Nylatron	152 mm [6 in] flexible loop		
( )	LSZ618	Ø 4,8 [Ø 0.19 ] Nylatron	p		
	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
amma.	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
	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

<sup>\*</sup> May require orientation of switch and lever to enable gravity to help restore switch to free position.

#### **DIMENSIONS** mm[in]

Figure 1. MICRO SWITCH CX - side rotary standard housing

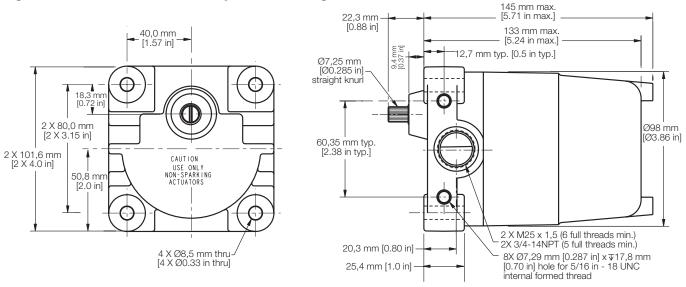
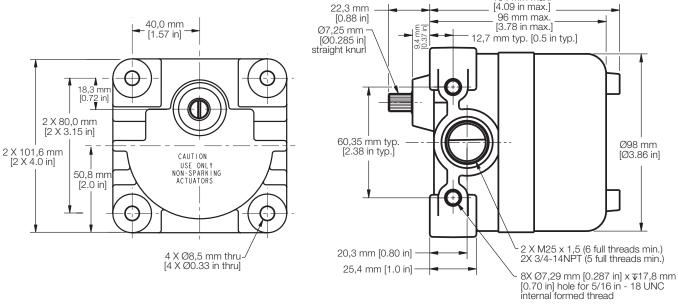
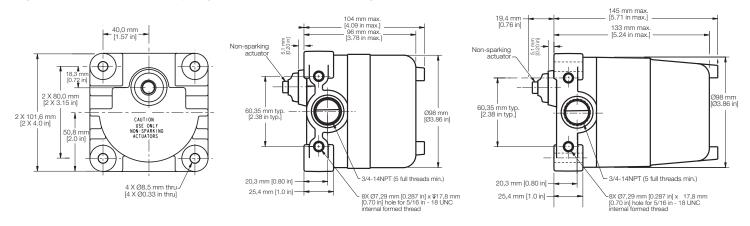


Figure 2. MICRO SWITCH CX - side rotary short housing



104 mm max.

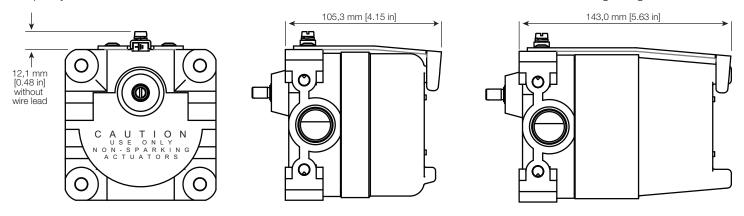
Figure 3. MICRO SWITCH CX - plunger standard and short housing



#### **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: 11CX2E.



#### **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

#### 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

Sensing and Productivity Solutions Honeywell 1985 Douglas Drive North Golden Valley, MN 55422

honeywell.com

### **AWARNING**

#### **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.

#### **AWARNING**

#### 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.

