HAZARDOUS AREA SWITCHES

Product Range Guide



RUGGED. RELIABLE. READY FOR USE.

Honeywell has a complete family of hazardous area limit switches tailored to exact specifications for superior performance, extended productivity and increased safety.

Reduce operational and maintenance costs with Honeywell's hazardous area limit switches. Reliable and robust, these flexible switches are designed for a wide range of industrial applications, from mud pumps, valve positioning and pig position detectors to gate/door monitoring, conveyors and many more. Count on Honeywell for global support, exceptional quality, and innovative design and technology.

DESIGNED TO ENDURE THE TOUGHEST APPLICATIONS

Sintered, bronze bearings enable longer operating life and increase resistance in corrosive environments Field adjustability of operating head matches switch to application



Dual bearings deliver enhanced mechanical life

> Rugged zinc head and aluminum body are phosphate treated and epoxy coated



V15W2: explosion-proof basic switch

neyw

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Ex 12 0 Ex 6 10 12 0 Ex 10 A2 KENKA 00 ATE **GXE:** compact footprint with SPDT capabilities and pre-leaded cable 0.5 in or 0.75 in conduit options

14CE100:

smallest available footprint with pre-leaded cable

VPX: Valve position indicator designed for outdoor use in hazardous atmospheres Features highlighted below relate to the MICRO SWITCH BX, LSX, GSX, and CLSX Series

Boss-and-socket head design for more secure <u>hea</u>d-to-body retention

> Twin shaft seals for improved • environmental protection. Optional fluorosilicone seals extend operating temperature down to -40 °C [-40°F]

 Diaphragm seal adds an extra measure of dynamic sealing between head and body

Cover o-ring seal maintains NEMA and IP environmental sealing for the switch cavity

10

D:

ED

EX: original

original hazardous area MICRO SWITCH with the largest installed base

CX: designed for use with valves

RANGE GUIDE

HAZARDOUS AREA SWITCHES | BX, BX2, LSX, GSX, CLSX SERIES



BX SERIES

A global history of rugged performance in explosive environments and a broad portfolio of options to meet your needs



- Choice of aluminum or stainless steel housings for use in non-corrosive and corrosive environments
- Designed for use in the toughest climates (-40°C to 70°C [-40°F to 158°F])
- Silver contacts available for switching power loads and gold contacts for switching low-power loads
- Mounting pattern is interchangeable with the iconic HDLS MICRO SWITCH platform
- Multiple actuator & switching combinations are available



LSX SERIES

Weather-sealed product for operation in explosive environments in North America



- Silver contacts available for switching power loads and gold contacts for switching low-power loads
- Mounting pattern is interchangeable with the iconic HDLS MICRO SWITCH platform
- Optional availability for use in low temperatures (-40°C [-40°F])
- Multiple actuator & switching combinations are available

GSX SERIES

Combines proven MICRO SWITCH global safety limit switch product with an explosion-proof design to create a hazardous area safety switch



- Designed to ensure that even welded contacts will open and machine will stop in emergency situations
- SIL 3 rating for use in safety applications
- Switching contacts with positive break
- Optional gold contacts for switching low-power load
- For use on gates, cages, panels, and other applications requiring a machine to stop in an emergency



CLSX SERIES

Cable-pull switch designed for emergency stop protection in explosive environments

- Cable lengths may be 200 ft in straight line
- Positive opening of normally closed (NC) contacts
- For use with conveyors, perimeter guarding and more



- Control valves and actuators
- Gate position detection
- Grain handling equipment
- Mining conveyors
- Mud pumps
- Offshore drilling
- Oil and gas drilling rigs
- Paint booths
- Pulp and paper coating
- Valve position monitoring
- Waste treatment

K	LSX		GSX	CLSX
BX (20 mm): ATEX, IEC Ex, NEPSI Ex BX (NPT): ATEX, cULus, IEC Ex, KOSHA/KTL, NEPSI Ex BX2 (20 mm/NPT): ATEX, cULus, IEC Ex, NEPSI EX, IN METRO	UL, CSA	Agency Approvals	cULus, ATEX, IEC Ex, KOSHA/KTL, IN METRO	UL, CSA
NEMA 7 (Gas) Div 1&2, Class I, Groups B, C, & D; NEMA 9 (Dust) Div 1&2, Class II, Groups E, F, & G II 2 G Ex d IIC T6 Gb II 2 D Ex tb IIIC T85°C Db	NEMA 7 (Div. 1 & 2, Class I, Groups B, C, & D) NEMA 9 (Div. 1 & 2, Class II, Groups E, F, & G)	Hazardous Area Designations	NEMA 7 (Gas) Div. 1 & 2, Class I, Groups B, C, & D NEMA 9 (Dust) Div. 1 & 2, Class II, Groups E, F, & G II 2 G; Ex d IIC T6 II 2 D; Ex d tD A21 T85°C	NEMA 7 (Gas) Div. 1 & 2, Class I, Groups B, C, & D NEMA 9 (Dust) Div. 1 & 2, Class II, Groups E, F, & G
IP67; NEMA 1, 3, 4, 6, 13	IP67; NEMA 1, 3, 4, 6, 13	Sealing	IP67; NEMA 1, 4, 6, 12, 13	NEMA 1, 3, 4, 13
aluminum, epoxy coated stainless steel	aluminum, epoxy coated	Housing Material	aluminum, epoxy coated	aluminum, epoxy coated
side rotary, side rotary (maint.) side pin plunger, side pin plunger adj. side roller, side roller adj. top rotary, top pin plunger, top pin plunger adj. top roller plunger, wobble	side rotary, side rotary (maint.) side plunger, side plunger adj. side roller, side roller adj. top rotary, top plunger, top roller plunger, wobble	Actuators/Levers	side rotary, top pin plunger, top roller plunger, top roller lever	cable/rope, maintained
0.5 in - 14NPT conduit, 0.75 in - 14NPT conduit, 20 mm conduit	0.5 in - 14NPT conduit, 0.75 in - 14NPT conduit, 20 mm conduit	Termination	0.5 in - 14NPT conduit, 20 mm conduit	0.5 in - 14NPT conduit, 20 mm conduit
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 3NC 1NO slow action, double break	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	Circuitry	1NC 1NO snap action, 2NC 2NO snap action, 2NC slow action, 2NO slow action, 1NC 1NO BBM slow action, 1NC 1NO MBB slow action, 2NC 1NO BBM slow action, 2NC 2NO BBM slow action, 3NC 1NO BBM slow action, 4NC slow action	1NC direct acting, 1NO 1NO direct acting, 2NC direct acting
-40°C to 70°C [-40°F to 158°F]	-12°C to 121°C [10°F to 250°F] optional (-40°C [-40°F])	Operating Temp. (std)	-40°C to 70°C [-40°F to 158°F]	-1°C to 70°C [30°F to 158°F]
10 A (thermal)	10 A (thermal)	Amp Rating	10 A (thermal)	10 A (thermal)
AC15 A600; DC13 R300	AC15 A600; DC13 R300	Voltage	AC15 A300, AC15 A500 AC15 A600, DC13 Q300	24 Vdc, 250 Vdc 120 Vac, 240 Vac, 600 Vac
External and internal	Internal	Grounding screw	External and internal	Internal

MICRO SWITCH HAZARDOUS AREA SWITCHES | BX, BX2, & LSX

вх	I	F	ЗК		-
Switch Type	Conduit Threads	; Head Style*	Body/Basic Switch Code	Actuator Modificatio	Actuator on Options
BX Series Aluminum	1/2 or 3/4 NPT**	A * Side rotary; momentary	1A 3NC/1NO, slow acting, 3/4 - 14 NPT	1 CW rotation	1A [*] Fixed Ø 0.75 in x 0.25 in W nylon roller, 1.5 in radius, front mount
Hazardous Area	4 20 mm	B Top rotary; momentary	1E 3NC/1NO, slow acting, 3/4 -14 NPT gold-plated contacts	2 CCW rotation	1C [*] Fixed Ø 0.75 in x 0.25 in W nylon roller, 1.5 in radius, back mount
Limit Switch	** see Body/Basic Switch Code column	C* Top pin plunger, momentary	3E 1NC/1NO, snap action, 1/2 -14 NPT gold-plated contacts	3 Right-oriented head assembly	
BX2 Series Stainless	NOTE: if 1/2 NPT or 3/4 NPT conduit is desired, no code is	D * Top roller plunger, momentary	3K 1NC/1NO, snap action, 1/2 - 14 NPT	4 Left-oriented a head assembly	back mount
Steel Hazardous	necessary. Leave- blank.	E * Side pin plunger; momentary	▲ 4K 1NC/1NO, snap action, 3/4 - 14 NPT	5 Head assembl actuator to mounting surf	ace 0.5 in W nylon roller, front mount
Area Limit Switch	If conduit code "4" in this column is selected, conduit in	F * Side roller plunger; momentary	4L 2NC/2NO, snap action, 3/4 - 14 NPT	6 Roller perpend to mounting su	urface back mount
	Body/Basic Switch column does not	Side rotary, momentary; low PT, low torque	4M ^{2NC/2NO, snap action, sequential, 3/4 - 14 NPT}	8 Roller parallel mounting surf	
	apply.	J Wobble stick	4N 2NC/2NO, snap action, center neutral, 3/4 - 14 NPT		4M Hub rod, aluminum
- and the second		K Cat whisker	4S 2NC/2NO, snap action, 3/4 -14 NPT gold-plated contacts		5A Offset, Ø 0.75 in x 0.25 in W nylon roller, back mount
TI I		Side rotary; sequential, momentary	4T 2NC/2NO, snap action, sequential, 3/4 -14 NPT, gold-plated contacts		5C Offset, Ø 0.75 in x 0.25 in W nylon roller, front mount
II	, tt.	Side rotary; central neutral, momentary	4U 2NC/2NO, snap action, center neutral, 3/4 -14 NPT, gold-plated contacts		7A Plastic wobble stick
		N [*] Side rotary; maintained	Δ 7L 2NC/2NO, snap action, 1/2 - 14 NPT		8A Cat whisker, 5.5 in
	409	P * Side rotary, momentary; low PT and DT	^A 2NC/2NO, snap action, center neutral, 1/2 - 14 NPT	To order high ter	nperature versions, insert the
		R * Side rotary, momentary; low torque	Δ 2NC/2NO, snap action, 1/2 -14 NPT gold-plated contacts	additional letters	Y and C in the appropriate places in alog listing, as shown below:
		V Top pin plunger, adjustable, momentary	^A 2NC/2NO, snap action, sequential,1/2 -14 NPT, gold-plated contacts	BXA3K sta	ndard, side-rotary plug-in switch
			$\frac{1}{1}$	BXYAC3K COL	mpletely FC-sealed version of

BXA3K	standard, side-rotary plug-in switch
BX <u>y</u> a <u>c</u> 3k	completely FC-sealed version of BXA3K

 Δ Not available with conduit code 4.

Side pin plunger,

adjustable, momentary

* BX2 stainless steel "head styles" and "actuators" available

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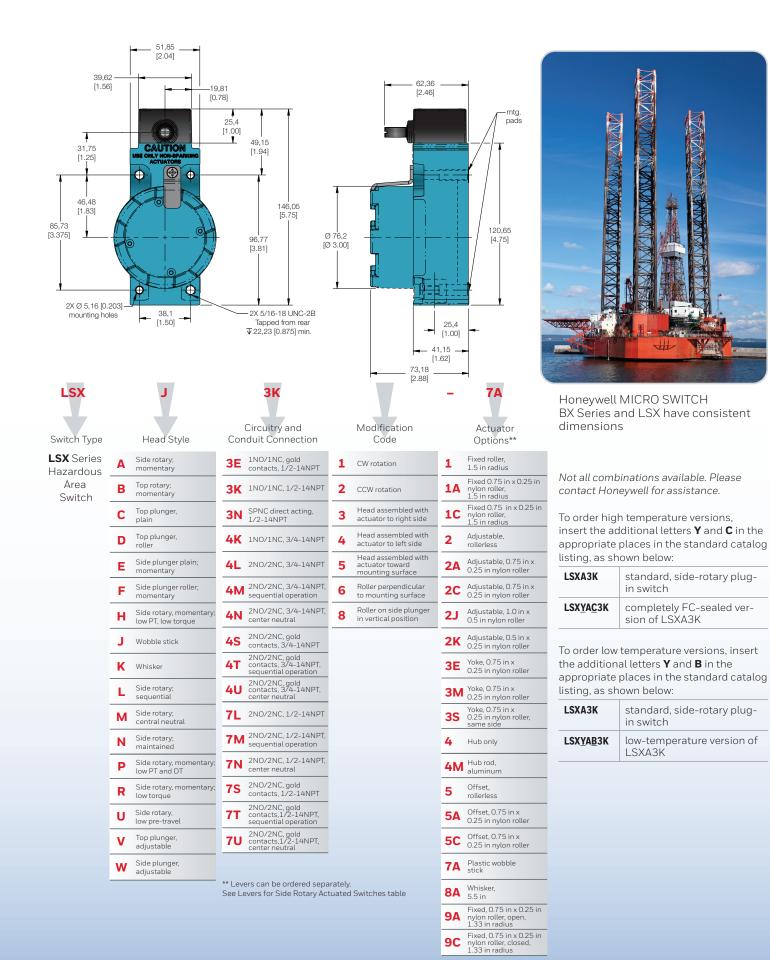
2NC/2NO, snap action, center neutral, 1/2 -14 NPT, gold-plated contacts

LEVERS FOR SIDE ROTARY ACTUATED SWITCHES

W

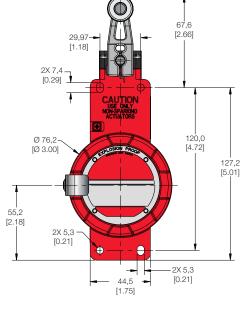
-					
Code	Catalog Listing	Material	Roller Dia. (in)	Roller Width (in)	Roller Mounting
Fixed 1	5 inch radiu	IS			
1		Rollerless	n/a	n/a	n/a
1A	LSZ51A	Nylon	0.75	0.25	Front
1C	LSZ51C	Nylon	0.75	0.25	Back
Adjusta	able 1.5 in to	3.5 in radius			
2		Rollerless	n/a	n/a	n/a
2A	LSZ52A	Nylon	0.75	0.25	Back
2C	LSZ52C	Nylon	0.75	0.25	Front
2J	LSZ52J	Nylon	1.0	0.50	Front
2K	LSZ52K	Nylon	1.5	0.25	Front
Yoke -	1.5 in radius	;			
ЗE	LSZ53E	Nylon	0.75	0.25	Back/ Front
ЗМ	LSZ53M	Nylon	0.75	1.25	Back/ Front

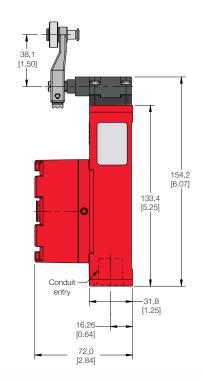
Code	Catalog Listing	Material	Roller Dia. (in)	Roller Width (in)	Roller Mounting	
3S	LSZ53S	Nylon	0.75	0.25	Front/ Front	
Rod						
4		Hub only	n/a	n/a	n/a	
4M	LSZ54M	Alum, 5.5 in	n/a	n/a	n/a	
Offset -	Offset – 1.5 in radius					
5		Rollerless	n/a	n/a	n/a	
5A	LSZ55A	Nylon	0.75	0.25	Back	
5C	LSZ55C	Nylon	0.75	0.25	Front	
Wobble	stick					
7A	LSZ1JGA	Delrin™ rod, 5.5	n/a	n/a	n/a	
Short fixed - 1.3 in radius						
9A	LSZ59A	Nylon	0.75	0.25	Front	
9C	LSZ59C	Nylon	0.75	0.25	Back	



MICRO SWITCH HAZARDOUS AREA SWITCHES | GSX SERIES







GSX	
Switch Type	С
GSX Series Hazardous	A
Area Safety	в
Switch	C

ch Type	Сс	onduit Connection
Series ardous	A	1/2 in NPT
rea fety	в	PG 13.5
/itch	С	20 mm

A

	01 Circuitry		B
01	Snap action, 1NC/1NO	A	Side rota momenta
03	Slow action, 1NC/1 NO, BBM	В	Top pin p
04	Slow action, 1NC/1 NO, MBB	С	Top roller
05	Slow action, 2NO	D	Top roller
06	Slow action, 2NC		
07	Snap action, 1NC/1NO, gold contacts		
20	Snap action, 2NC/2NO		
22	Snap action, 2NC/2NO, gold contacts		
33	Slow action, 1NC/1NO, BBM		
34	Slow action, 1NC/1NO, MBB, gold contacts		
35	Slow action, 2NO, gold contacts		
36	Slow action, 2NC, gold contacts		
40	Slow action, 4NC		
41	Slow action, 4NC, gold contacts		
42	Slow action, 2NC/1NO, BBM		
43	Slow action, 2NC/1NO, BBM, gold contacts		
44	Slow action, 2NC/2NO, BBM		

B Head Style		Actuator Style		Lever Roller
Side rotary; momentary	1	Flixed length roller	Α	19,0 mm x 6,35 mm [0.75 ian x 0.25 in] nylon roller
Top pin plunger	3	Yoke roller	С	24,4 mm x 12,7 mm [1.0 in x 0.5 in] nylon roller
Top roller plunger	5	Offset roller	D	38,1 mm x 6,35 mm [1.5 in x 0.25 in] nylon roller
Top roller lever			Е	19,0 mm x 6,35 mm [0.75 ian x 0.25 in] bronze roller
			w	40 mm x 12,7 mm [1.5 in x 0.5 in] bronze roller

Y

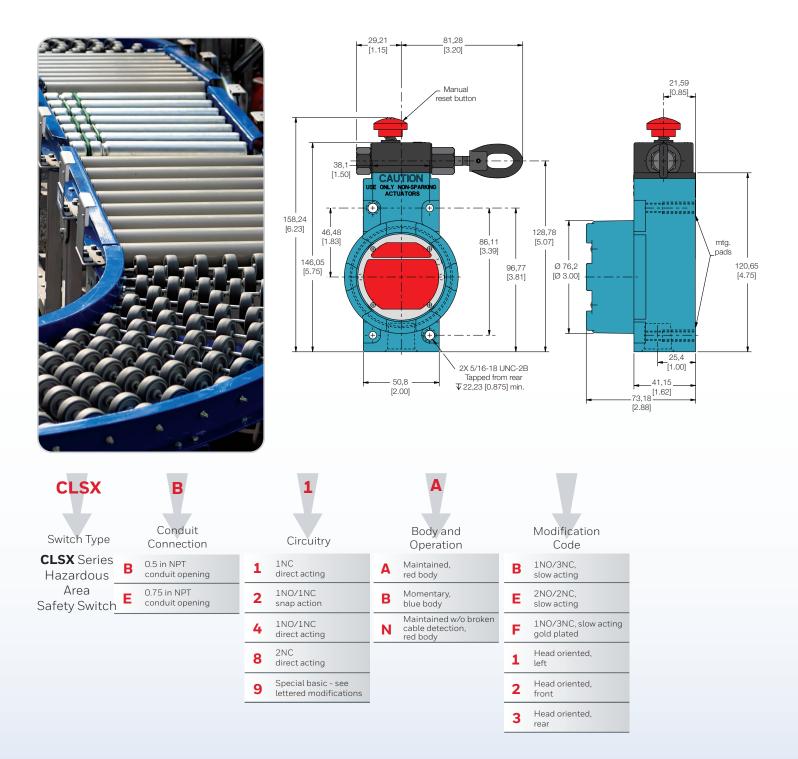
50,9 mm : [2.0 in x 0

	-	
er		Modifications/
er		Specials
x 6,35 mm x 0.25 in] er	1	Clockwise rotation
x 12,7 mm .5 in] er	2	Counter-clockwise rotation
x 6,35 mm .25 in] er	3	Head assembled with actuator to right side
x 6,35 mm x 0.25 in] ller	4	Head assembled with actuator to left side
L2,7 mm .5 in] ller	5	Head assembled with actuator to mounting surface
x 12,7 mm .5 in] ler	6	Roller perpendicular to mounting surface

45 Slow action, 2NC/2NO, BBM, gold contacts 46 Slow action, 3NC/1NO, BBM 2NO/2NC, center neutral, high fidelity contacts, 0.5 in tap

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MICRO SWITCH HAZARDOUS AREA SWITCHES | CLSX SERIES



HAZARDOUS AREA SWITCHES | CX, EX, 14CE100, GXE SERIES



CX SERIES

Weather-sealed, explosion-proof switch designed for outdoor use in hazardous atmospheres



- Ability to monitor guarter-turn and linear valve position
- Automates existing, non-automated valves
- Pin plunger and side-rotary versions
- Hermetically sealed elements available
- Housing available in short and standard lengths
- Optional gold contacts for switching low-power load
- Up to six NC and six NO contacts



EX SERIES

The original hazardous area MICRO SWITCH with the largest installed base



- Mounts from any of four sides
- Hermetically sealed elements available
- Option for two conduit openings
- Variety of levers and actuators
- Optional gold contacts for switching low-power load
- High temperature versions available (204°C [400°F])



14CE100 SERIES

Gang-mounting capability adds to application design flexibility for smaller machines and instruments



- Use where limited space is available
- Available with pin and roller plunger actuators
- Pre-leaded to minimize installation and procurement costs
- Optional gold contacts for switching low-power load



GXS SERIES

Compact, pre-leaded switch with DIN-sized body



- EN 50047 mounting compatible (GXE Series)
- EN 50041 mounting compatible (GXA Series)
- Double insulated switch cavity provides a second layer of electrical circuit protection
- Pre-wired; variety of heads, levers, and actuators
- Compact footprint for use where space is limited



- Control valves and actuators
- Gate position detection
- . Grain handling equipment
- . Mining conveyors
- . Mud pumps
- Offshore drilling
- . Oil and gas drilling rigs
- Paint booths •
- Pulp and paper coating
- Valve position monitoring
 - Waste treatment

View CX	EX.		14CE100	GXE GXA
UL, CSA, [ATEX (CE), IEC Ex, IN METRO (select models)]	UL, CSA, ATEX (CE), IEC Ex , IN METRO	Agency Approvals	ATEX (CE)	ATEX (CE), IEC Ex, NEPSI Ex
NEMA 7 (Gas): Class I, Div.1 & Div. 2, Groups B (14CX, 16CX, 24CX, 26CX, 36CX only), C, and D; NEMA 9 (Dust): 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	NEMA 7 (Gas): Div. 1 & 2, Class I, Groups <u>B</u> , C, & D (select models) NEMA 9 (Dust): Div. 1 & 2, Class II, Groups E, F, & G II 2 G; EEx db IIB + H2 T6	Hazardous Designations	II 2 G; Ex d IIC T6 II 2 D; Ex tD A21 T85°C	II 2 G; EEx d IIC T6 II 2 D; Ex tD A21 T85°C
NEMA 1, 3, 4, 4X, 6, 6P, and 13; IP66	NEMA 1	Sealing	IP65, (IP66/IP67 boot sealed plungers)	IP66/67
aluminum epoxy coated, bronze	aluminum, epoxy coated	Housing Material	zinc, epoxy coated	zinc, epoxy coated
side rotary (choice of levers), side rotary (with flat shaft), plunger actuator	side rotary, top pin plunger, top roller plunger, manual	Actuators/Levers	top pin plunger, top roller plunger, cross-roller plunger	side rotary, top pin plunger, top roller plunger
3/4 - 14 NPT, M25 x 1,5 mm conduit	1/2 in - 14NPT conduit, lead wires	Termination	cable (various lengths)	5 m cable
1NC 1NO SPDT, 2NC 2NO DPDT, 6NC 6NO, 4NC 4NO	1NC 1NO SPDT snap action, 1NC 1NO SPDT maintained, 2NC 2NO DPDT snap action	Circuitry	1NC 1NO SPDT snap action	1NC 1NO SPDT snap action
-25°C to 85°C [-13°F to 185°F] -40°C [-40°F] optional	-40°C to 71°C [-40°F to 160°F]	Operating Temp.	0°C to 70°C [32°F to 158°F]	-20°C to 75°C [-4°F to 167°F]
1 A, 10 A, 15 A, 20 A	1 A, 3 A, 10 A, 15 A, 20 A	Amp Rating	1 A (thermal), 5 A (thermal)	5 A (thermal)
120 Vac, 240 Vac, 480 Vac, 28 Vdc, 125 Vdc, 250 Vdc	125 Vac, 250 Vac, 480 Vac, 125 Vdc, 250 Vdc	Voltage	AC14 D300 DC13 R300	AC15, 4 A 250 V DC13, 0.15 A 250 V
external and internal	external and internal	Grounding screw	external and internal (ground wire provided)	none, double insulated

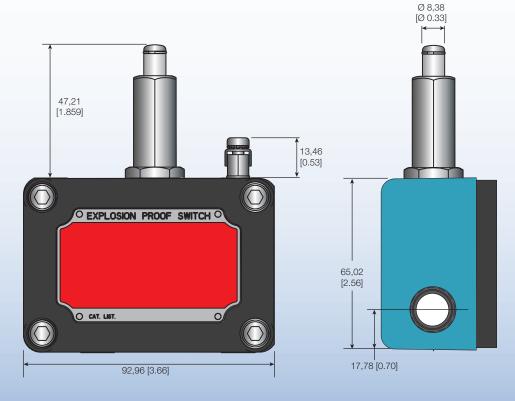


MICRO SWITCH HAZARDOUS AREA SWITCHES | EX SERIES

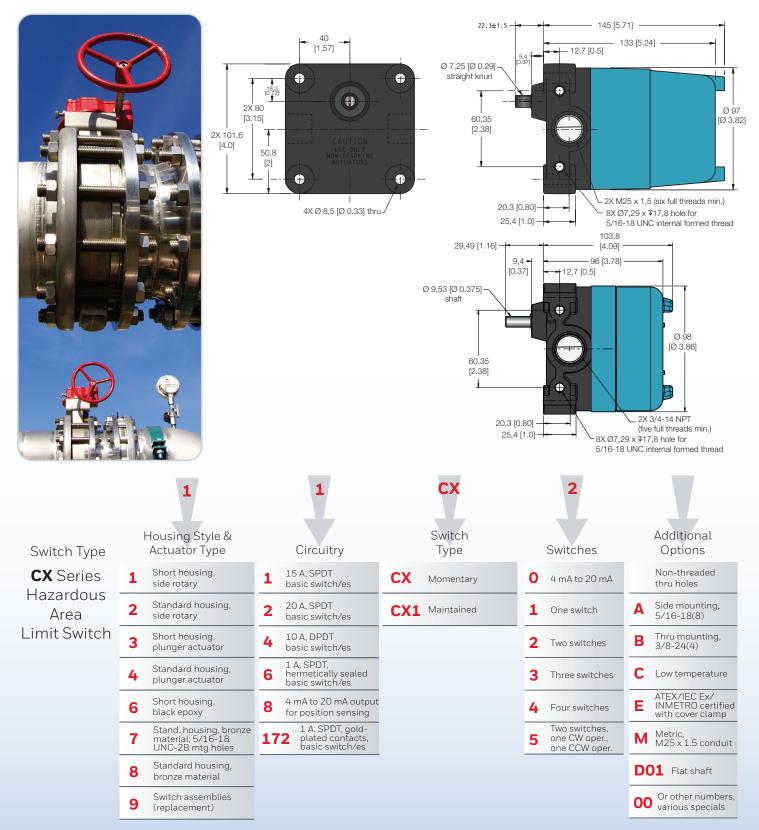
Catalog Listing	Actuation Type	Actuation	Contact	Electrical Rating*	Other
EX-AR	Roller Lever	Clockwise	SPDT	А	
EX-AR20	Side Rotary	Clockwise	SPDT	А	No lever furnished
EX-AR230	Side Rotary	Counter Clockwise	SPDT	А	
EXA-AR20	Side Rotary	Clockwise	SPDT	В	
EX-AR30	Roller Lever	Counter Clockwise	SPDT	А	
EX-AR800	Roller Lever	Clockwise	SPDT	А	Class 1 / Group B
EX-AR830	Roller Lever	Counter Clockwise	SPDT	А	Class 1 / Group B
EXHT-AR	Roller Lever	Clockwise	SPDT	С	High temperature 204°C [400°F]
EXA-AR	Roller Lever	Clockwise	SPDT	В	
EXA-AR62	Roller Lever	Clockwise	SPDT	В	No mounting bracket
EX-AR182	Roller Lever	Clockwise	SPDT	А	Nylon roller
EX-AR141	Roller Lever	Clockwise	SPDT	А	No mounting bracket
EX-Q	Top Pin Plunger	_	SPDT	А	
EX-Q62	Top Pin Plunger	-	SPDT	А	No mounting bracket
EXA-Q	Top Pin Plunger	-	SPDT	В	Low operating force
EXHT-Q	Top Pin Plunger	_	SPDT	С	High temperature 204°C [400°F]
*Electrical Ratings					
А	UL/CSA Rating: 15 1/2 amp, 125 Vdc;	5 A, 125 Vac, 250 Vac or 1/4 amp, 250 Vdc	480 Vac; 1	/8 HP, 125 V	ac; 1/4 HP, 250 Vac;
В	UL/CSA Rating: 20 1/2 amp, 125 Vdc;		480 Vac; 1	0 A, 125 Vac	"L"; 1 HP, 125 Vac; 2 HP, 250 Vac;
С	UL/CSA Rating: 3 A	A, 125 Vac or 250 Vac; 1	./10 HP, 12	5 Vac; 1/6 H	P 250 Vac

MICRO SWITCH EX Series Listings

Additional options and configurations of this product are available. Please contact Honeywell for more information.



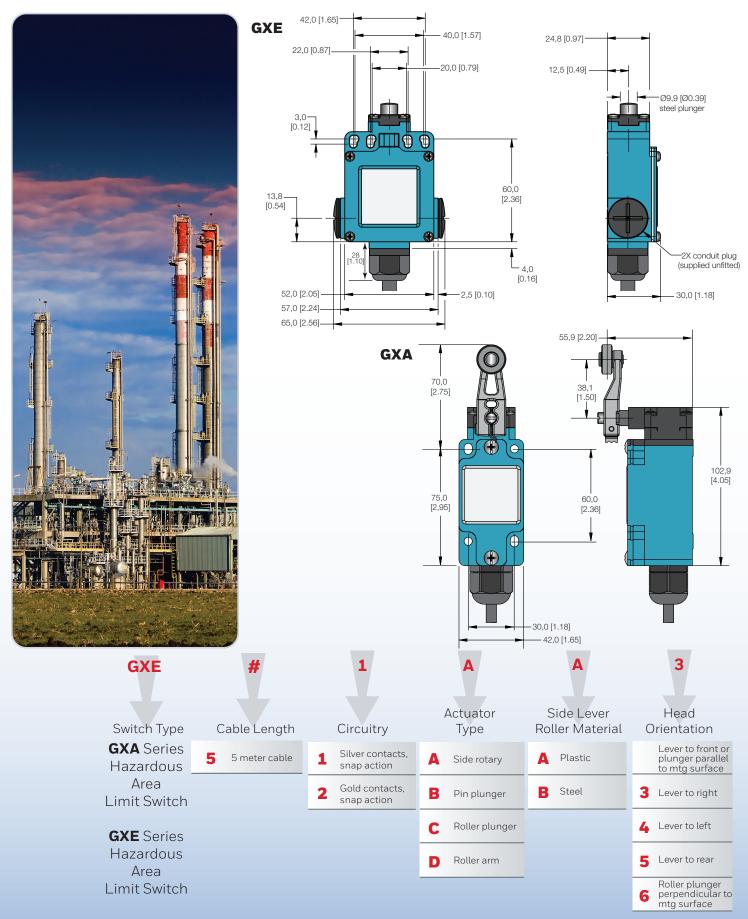
MICRO SWITCH HAZARDOUS AREA SWITCHES | CX SERIES



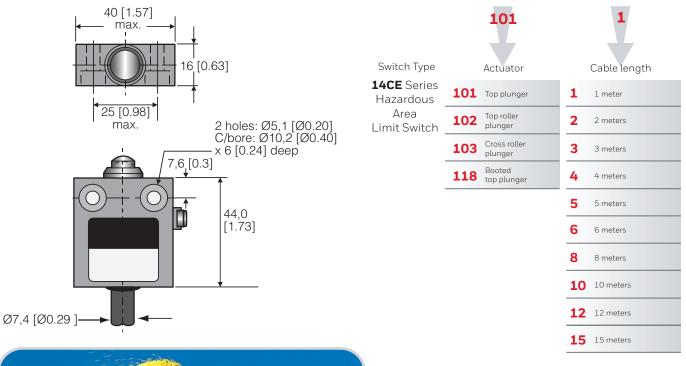
Other special configurations may be available.

For more information, contact your Honeywell representative.

MICRO SWITCH HAZARDOUS AREA SWITCHES | GXA/GXE SERIES



MICRO SWITCH HAZARDOUS AREA SWITCHES | 14CE100 SERIES





HAZARDOUS AREA SWITCHES | VPX SERIES



VPX SERIES

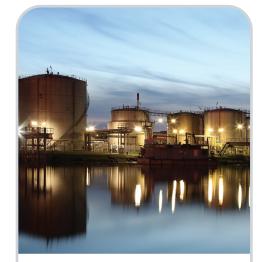
Valve position indicator designed for outdoor use in hazardous atmospheres



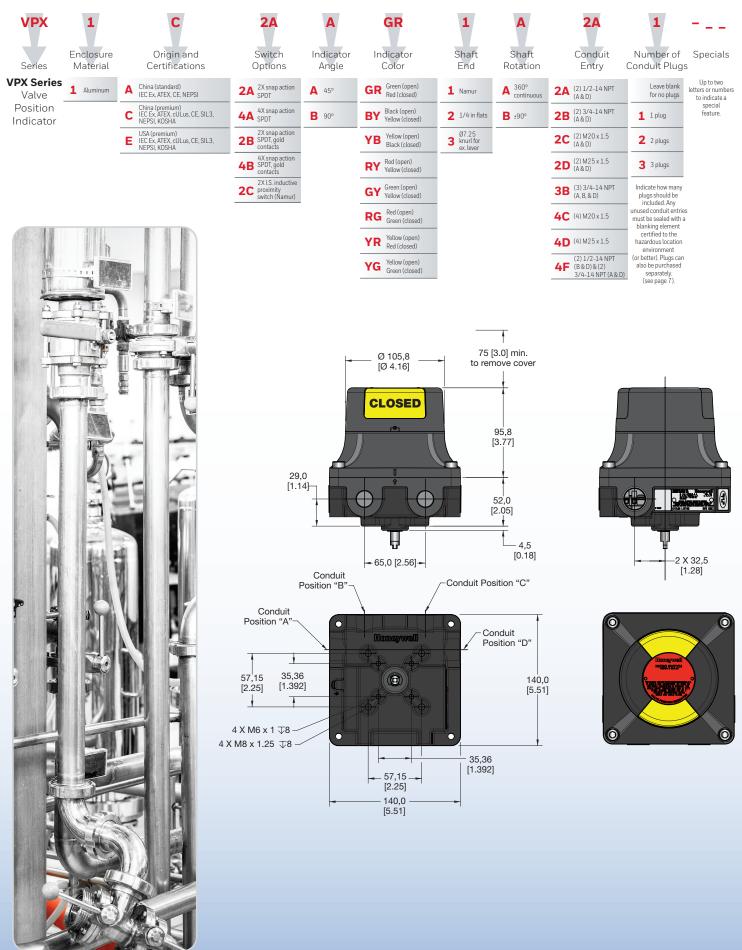
- Certified for ATEX, IEC Ex, CE, and cULus specifications for global applications that requires protection from explosive gases, vapors & combustible dust
- Die-cast aluminum housing and various sealing (NEMA 4, 4X, 6, and 13), certifies the VPX Series is rated for rain, wind, snow, ice and blowing dust environments
- Wide operating temperature range from -40°C to 80°C
- Versions of the VPX with proximity switches carry an Intrinsically Safe (IS) rating
- Well suited for up to 500,000 actuation cycles
- Available in multiple indicator colors that is visible from all directions



Agency Approvals	cULus, ATEX, IEC EX, CE, NEPSI, KOSHA/KTL
Explosion Proof Hazardous Area Designations	North America: Division 1, Class I, Groups B, C, and D (Gas Rating) Division 1, Class II, Groups E, F, and G (Dust Rating) ATEX/IEC Ex: II 2 G, II 2 D (ATEX Rating) Ex db IIC T6 Gb (Gas Rating) Ex tb IIIC T85°C Db (Dust Rating) Ta -40°C to +50°C (Switch Code 4A or 4B) Ta -40°C to +60°C (Switch Code 2A or 2B)
Intrinsically Safe Hazardous Area Designations	VPX with proximity switches carry an intrinsically safe rating: North America: Not Available ATEX/IEC Ex: II 1 G, II 1 D (ATEX Rating) Ex ia IIC T4 Ga (Gas Rating) Ex ia IIIC T135°C Da (Dust Rating) Ta -40°C to 80°C
Sealing	NEMA 4, 4X, 6, and 13 per UL 50E; IP66 per IEC 60079-0; IP67 per IEC 60529 (self-certified by Honeywell)
Housing Material	aluminum with protective paint finish
Visual Indicator	available in multiple colors and angles. Visible from all directions.
Operating Temp.	versions with four electromechanical switches: -40°C to 50°C [-40°F to 122°F] versions with two electromechanical switches: -40°C to 60°C [-40°F to 140°F] versions with proximity switches: -40°C to 80°C [-40°F to 176°F]
Electrical Rating	versions with snap-action switches: UL Rating: 15 A 150 Vac CE Rating: 16 A 250 Vac 10 A 250 Vac 0.5 A 250 Vdc 0.5 A 250 Vdc versions with intrinsically safe proximity switches: switch element function: NAMUR, NC nominal voltage: $8.2 V$ current consumption (On) $\leq 1 mA$ current consumption (Off) $\geq 3 mA$



- Seaside grain and duel loading docks
- Oil and gas wells
- Refineries
- Fuel storage facilities
- Mining
- Petrochemical and chemical plants
- Waste water treatment facilities
- Oil and gas production pipeline networks
- Paint batching/blending plants
- Pharmaceuticals and drug processing plants
- Food and beverage industries
- Pesticides manufacturing plants
- Textile dyeing and finishing plants
- Lead acid battery manufacturing facilities



HAZARDOUS AREA SWITCHES | V15W2 SERIES



V15W2 Series

Basic switches approved for use in Zone 2 hazardous locations



- ATEX and IEC Ex approved for use in Zone 2 hazardous locations
- IP67 equivalent
- UL, cUL, ENEC, CQC approvals for ordinary (non-hazardous) locations
- 5 A electrical rating
- Longer service life: over one million mechanical operations
- Quick-connect terminals
- SPDT, SPNO¹, SPNC¹
- 100 gf, 200 gf¹ operating forces
- Available with a variety of actuators
- Global package size acceptance
- Gold contacts are also available for controlling logic-level/ low-energy circuits

¹ These options have a three-month lead time for set up.

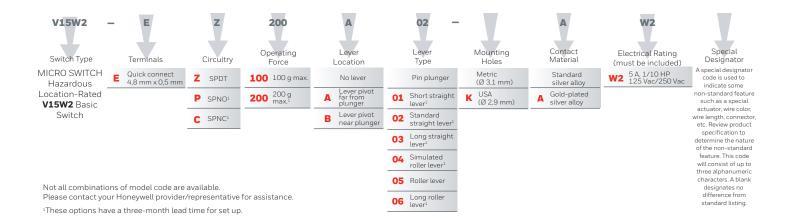


	1302
Agency Approvals	UL, cUL, ENEC, CQC ordinary (non-hazardous) locations per UL/EN 61058-1
Explosion Proof Hazardous Area Designations	IEC Ex per IEC 60079-0 and 60079-15 Ex nC IIA T5 Gc -25°C < Tamb < +85°C
Sealing	IP67 equivalent
Housing Material	PBT thermoplastic polyester
Sealing Material	silicone
Operating Temp.	-25 °C to 85 °C [-13 °F to 185 °F]
Electrical Rating	UL/cUL electrical rating per UL 61058-1: 5 A, 1/10 HP \circledast 125 Vac/250 Vac, 10,000 cycles ENEC/CQC electrical rating per IEC 61058-1 and GB15091.1: 5 A, 125 Vac/250 Vac, 50,000 cycles
Mechanical Life	1,000,000 cycles min. @ 180 cycles/minute max.

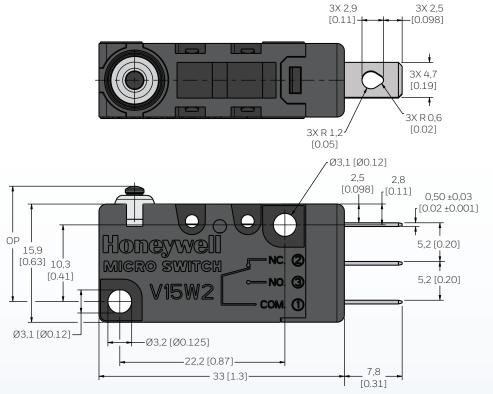


- Appliances (especially with new refrigerants)
- Valve actuators
- Commercial refrigeration
- Ice makers
- HVAC/R (furnace, refrigeration, ventilation)









There's an advantage for taking the bold step. For seeing the possibilities. And seizing the opportunity.

At Honeywell, we work hard to lead the way. To develop technologies that are ahead of the curve. To deliver solutions that anticipate your needs. And sometimes that innovative mindset allows you to be the market leader. That's why MICRO SWiTCH switches are the leading electromechanical switch brand on the market.

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MICRO SWITCH Hazardous Area Switches

- BX/BX2
- LSX
- CX
- FX
- VPX
- GXEIG
- 14CE100
- V15W2

Potential Applications

- Control valves
- Conveyors and grain elevators
- Maintenance equipment
- Material handling
- Off-shore drilling
- Paint booths
- Petrochemical and waste treatment plants
- Pipeline valves

For more information

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