

MICRO SWITCH™ GSX Series

Explosion-Proof Safety Switch



DESCRIPTION

Honeywell Sensing and Control MICRO SWITCH™ GSX Series Explosion-Proof Safety Switches combines the world-class MICRO SWITCH™ global safety switch (GSS) with our superior explosion-proof housing from our LSX and BX product lines, offering our customers the best of our engineering expertise.

FEATURES

- Snap-action contacts with positive break
- Positive action push plunger breaks current upon opening of door or aperture
- Explosion-proof housing for hazardous locations
- NEMA 1, 3, 4, 12, 13 and IP67 sealing
- cULus, ATEX, IECEx
- Simple installation
- Positive break feature
- Extensive switching options and actuator styles

BENEFITS

- Designed to ensure that even welded contacts will open and the machine will stop in an emergency
- Breaks current upon opening of door or aperture
- Reduces risk that hazardous gases or dusts could cause an explosion
- Meets IECEx standards
- Designed to provide a safe failure mode, ensuring the machine will not start
- Superior sealing for different applications

The positive break feature is designed to provide a safe failure mode, ensuring the machine will not start, and therefore supporting a safer working environment.

The GSX Series safety switch platform allows for over 10,000 actuator and switching option combinations, enabling our customers to source most of their safety and explosion-proof switch requirements from a single, global supplier.

POTENTIAL APPLICATIONS

Gates, doors, access panels or cages on machinery in:

- Hydrocarbon refining
- Chemical processing
- Agricultural equipment
- Food processing
- Grain elevators

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SPECIFICATIONS

Designation and Utilization Category		Rated Operational Current I _e (A) at Rated Operational Voltage U _e (V)						
		24 V	120 V	240 V	380 V	480 V	500 V	600 V
AC15	A300	—	6 A	3 A	—	—	—	—
AC15	A500	—	6 A	3 A	1,9 A	1,5 A	1,4 A	—
AC15	A600	—	6 A	3 A	1,9 A	1,5 A	1,4 A	1,2 A
DC13	Q300	2,8 A	0,55 A	0,27 A	—	—	—	—

Rated thermal current (I_{th})	10 A	Sealing	IP67; NEMA 1, 3, 4, 12, 13
Rated impulse withstand (U_{imp})	2500 V	Pollution degree	3
Rated insulation voltage (U_i)	300 V, 500 V, 600 V	Operating temperature range	-40 °C to 70 °C [-40 °F to 158 °F]
Short-circuit protective device (type/maximum rating)	Class J fuse (10 A/600 V)	Expected mechanical life	1,000,000 operations
Conditional short-circuit current	1000 A	—	—

Complies with:

Low Voltage Directive 73/23/EEC, as amended by directive 93/68/EEC.

Machinery Directive 98/37/EEC only as the directives relate to the components being used in a safety function.

IEC/EN60947-1, IEC/EN60947-5-1.

Explosion-Proof Safety Switch

NOMENCLATURE TREE MICRO SWITCH™ GSX Series Nomenclature

GSX	A	16	A	1	B	
Switch type ^(Note 1)	Housing (conduit)		Head		Actuator options	
Explosion-proof positive break series	A 0.5 in NPT	Basic switch	A Side rotary momentary	Actuator	A 19 x 6,35 [0.75 x 0.25] nylon roller	Modifications/ Specials
	B PG 13.5	01 Snap action, 1NC/1NO	B Top pin plunger	1 Std. fixed length roller	C 25,4 x 12,7 [1 x 0.5] nylon roller	1 Clockwise rotation
	C 20 mm	03 Slow acting, 1NC/1NO Break before make	C Top roller plunger	3 Yoke roller	D 38,1 x 6,35 [1.5 x 0.25] nylon roller	2 Cnterclock rotation
	D PF 1/2	04 Slow acting, 1NC/1NO Make before break	D Top roller lever	5 Offset roller	E 19 x 6,35 [0.75 x 0.25] bronze roller	3 Head assb. w/ actuator to right side
		06 Slow acting, 2NC			W 38,1 x 12,7 [0.75 x 0.5] rubber roller	4 Head assb. w/ actuator to left side
		07 Snap action, 1NC/1NO, gold			Y 50,9 x 12,7 [2.0 x 0.5] rubber roller	5 Head assb. w/ actuator to mtg. surf.
		20 Snap action, 2NC/2NO				6 Roller perpendicular to mounting surface
		22 Snap action, 2NC/2NO, gold				C Prelead cable
		33 Slow acting, 1NC/1NO Break before make, gold				Q Connector
		34 Slow acting, 1NC/1NO Make before break, gold				
		36 Slow acting 2NC, gold				
		40 Slow acting, 4NC				
		41 Slow acting, 4NC, gold				
		42 Slow acting, 2NC/1NO Break before make				
		43 Slow acting, 2NC/1NO Break before make, gold				
		44 Slow acting, 2NC/2NO Break before make				
		45 Slow acting, 2NC/2NO Break before make, gold				
		46 Slow acting, 3NC/1NO Break before make				
		47 Slow acting, 3NC/1NO Break before make, gold				

NOTES

(1) Not all possible combinations are available; these are only guidelines.

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Figure 1. Side rotary head with standard roller

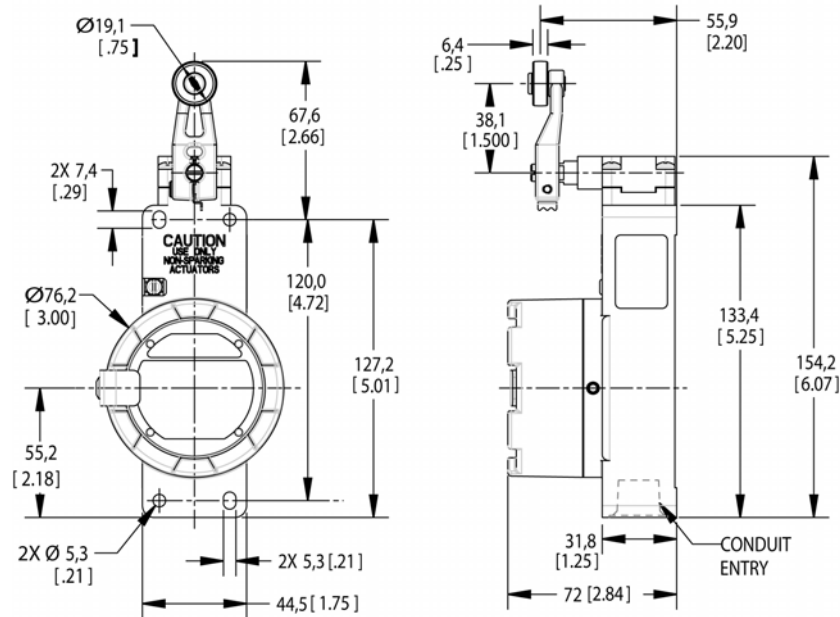


Figure 2. Pin plunger

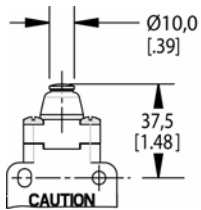


Figure 3. Top roller plunger

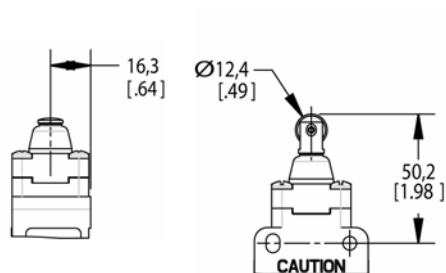
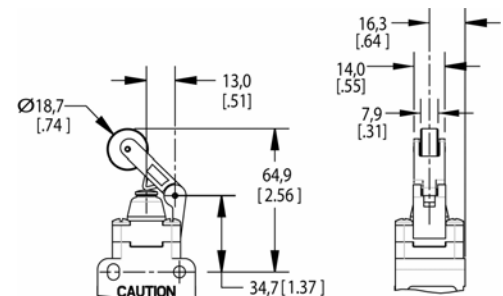


Figure 4. Top roller lever



ORDER GUIDE

Listing	Description
GSXA42A1E	0.5 in NPT housing 2NC/1NO side rotary Ø 0.75 in x 0.25 in bronze roller
GSXA42B	0.5 in NPT housing 2NC/1NO pin plunger
GSXA42C	0.5 in NPT housing 2NC/1NO top roller plunger
GSXA42D	0.5 in NPT housing 2NC/1NO top roller lever
GSXA46A1E	0.5 in NPT housing 3NC/1NO side rotary Ø 0.75 in x 0.25 in bronze roller
GSXA46B	0.5 in NPT housing 3NC/1NO pin plunger
GSXA46C	0.5 in NPT housing 3NC/1NO top roller plunger
GSXA46D	0.5 in NPT housing 3NC/1NO top roller lever
GSXC42A1E	20 mm housing 2NC/1NO side rotary Ø 0.75 in x 0.25 in bronze roller
GSXC42B	20 mm housing 2NC/1NO pin plunger
GSXC42C	20 mm housing 2NC/1NO top roller plunger
GSXC42D	20 mm housing 2NC/1NO top roller lever
GSXC46A1E	20 mm housing 3NC/1NO side rotary Ø 0.75 in x 0.25 in bronze roller
GSXC46B	20 mm housing 3NC/1NO pin plunger
GSXC46C	20 mm housing 3NC/1NO top roller plunger
GSXC46D	20 mm housing 3NC/1NO top roller lever



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.



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.

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**

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