Honeywell

MICRO SWITCH™ GSX Series

Explosion-Proof Safety Switch



DESCRIPTION

Honeywell Sensing and Control MICRO SWITCH[™] GSX Series Explosion-Proof Safety Switches combines the worldclass 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. 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.

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

POTENTIAL APPLICATIONS

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

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

MICRO SWITCH™ GSX Series

SPECIFICATIONS

Designation and Utilization Category		Rated Operational Current le (A) at Rated Operational Voltage Ue (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 (Ith)	10 A	Sealing	IP67; NEMA 1, 3, 4, 12, 13
Rated impulse withstand (Uimp)	2500 V	Pollution degree	3
Rated insulation voltage (Ui)	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.

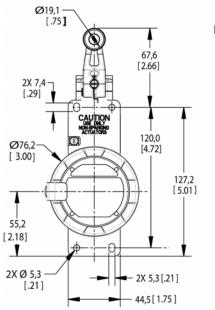
Explosion-Proof Safety Switch

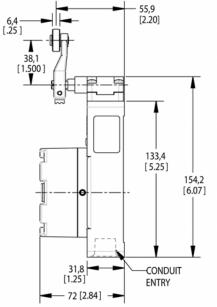
GSX A 16 A 1 В Switch type^(Note 1) Modifications/ Housing (conduit) Basic switch Head Actuator options Actuator Specials Std. fixed length roller 19 x 6,35 [0.75 x Snap action, Side rotary Explosion-proof 01 1 A 0.5 in NPT A А 1 Clockwise rotation 1NC/1NO 0.25] nylon roller momentary positive break 25,4 x 12,7 [1 x 0.5] nylon roller Slow acting, 1NC/1NC В С 2 3 PG 13.5 03 В Top pin plunger Yoke roller Cntrclock rotation series Break before make Slow acting, 1NC/1NC Make before break 38,1 x 6,35 [1.5 x Head assb. w/ actuato to right side 5 C 3 C 20 mm 04 Offset roller D Top roller plunger 0.25] nylon roller Slow acting, 19 x 6,35 [0.75 x Head assb. w/ actuator Ε D PF 1/2 06 D Top roller lever 4 2NC 0.25] bronze roller to left side Snap action, 38,1 x 12,7 [0.75 x Head assb. w/ actuato 5 07 W 1NC/1NO, gold 0.5] rubber roller to mtg. surf. Snap action, 50,9 x 12,7 [2.0 x Roller perpendicular 20 Y 6 2NC/2N0 0.5] rubber roller to mounting surface Snap action. NOTES 22 С Preleaded cable 2NC/2NO, gold (1) Not all possible combinations are available; these are only guidelines. Slow acting, 1NC/1NC Break before make, gold 33 Q Connector Slow acting, 1NC/1NC Make before break, gold 34 Slow acting 36 2NC, gold Slow acting, 40 4NC Slow acting, 41 4NC, gold Slow acting, 2NC/1NO Break before make 42 Slow acting, 2NC/1NC Break before make, gold 43 Slow acting, 2NC/2NC Break before make 44 Slow acting, 2NC/2NC Break before make, gold 45 Slow acting, 3NC/1NC Break before make 46 Slow acting, 3NC/1NC Break before make, gold 47

NOMENCLATURE TREE MICRO SWITCH™ GSX Series Nomenclature

MICRO SWITCH™ GSX Series

Figure 1. Side rotary head with standard roller



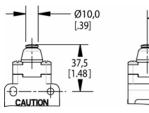


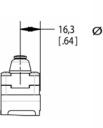
-16,3 [.64]

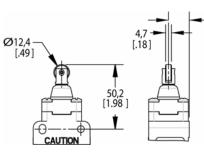
Figure 2. Pin plunger

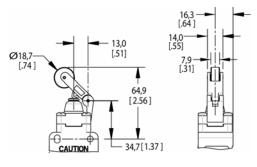
Figure 3. Top roller plunger

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

A 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

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 web site, 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.

SALES AND SERVICE

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 or:

E-mail: info.sc@honeywell.com Internet: www.honeywell.com/sensing Phone and Fax:

Asia Pacific	+65 6355-2828
	+65 6445-3033 Fax
Europe	+44 (0) 1698 481481
	+44 (0) 1698 481676 Fax
Latin America	+1-305-805-8188
	+1-305-883-8257 Fax
USA/Canada	+1-800-537-6945
	+1-815-235-6847
	+1-815-235-6545 Fax

Sensing and Control

Honeywell 1985 Douglas Drive North Golden Valley, Minnesota 55422 www.honeywell.com/sensing

Honeywell

004764-1-EN IL50 GLO Printed in USA July 2008 Copyright © 2008 Honeywell International Inc. All rights reserved.