## Honeywell

# 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

### **MICRO SWITCH™ GSX Series**

### **SPECIFICATIONS**

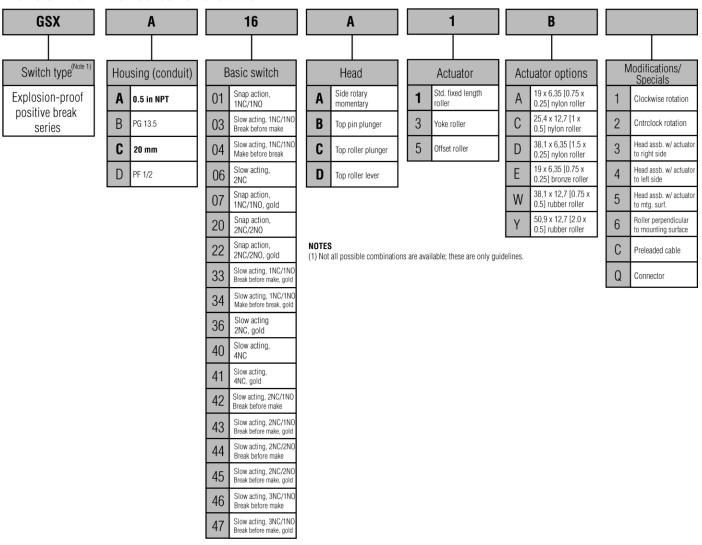
| Designation and<br>Utilization Category |      | Rated Operational Current le (A) at Rated Operational Voltage Ue (V) |        |        |       |       |       |       |
|---|------|--|--------|--------|-------|-------|-------|-------|
|   |      | 24 V   | 120 V  | 240 V  | 380 V | 480 V | 500 V | 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<br>(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



### MICRO SWITCH™ GSX Series

Figure 1. Side rotary head with standard roller

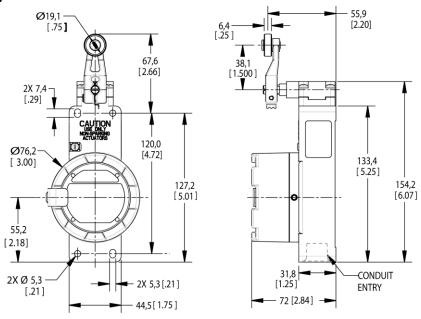
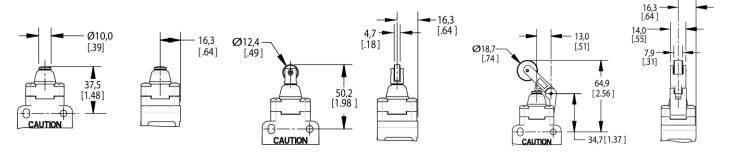


Figure 2. Pin plunger

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                                   |

### **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.



### **A** WARNING

### **RISK TO LIFE OR PROPERTY**

Never use this product for an application involving serious risk to life or property without ensuring that the system as a whole has been designed to address the risks, and that this product is properly rated and installed for the intended use within the overall system.

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:

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