

# MICRO SWITCH™ GSX Series Explosion-Proof Safety Switch for Hazardous Applications

### BACKGROUND

Dangerous equipment and machinery in explosion-risk/hazardous areas must be hard-guarded to ensure operator safety. The switches used must be safety-rated and explosion-proof, with agency approvals varying by region. Until now, the switch choice has been limited to those switches manufactured for the specific local requirements. Due to the complexity of achieving and maintaining worldwide approvals, many manufacturers limited safety approvals to their home region or country. For customers and OEMs that supply end products requiring explosion-proof safety switching components to worldwide customers, meeting all applicable regional approvals could create a major drain of engineering and purchasing resources to locate, procure, and verify the regional components required.

### SOLUTION

To alleviate the need for multiple explosion-proof safety switch components by region, Honeywell has developed the MICRO SWITCH™ GSX series switch. The GSX series explosion-proof safety switch is designed to be used in hazardous applications requiring a positive-break safety mechanism, and meets universal approvals certifications. (UL/CSA, ATEX and IECEx) The GSX series test data is also available for Safety Integrity Levels (SIL) approval calculations. The GSX safety switch may be applied in all countries requiring IECEx certification, which supersedes most other regional requirements. Modification to the application design are minimized, as the unique design allows for over 10,000 actuator and switching combinations. As the developer of the original MICRO SWITCH™ products, Honeywell is globally recognized as a leader in switching within the hazardous environments as well as safety switch products.

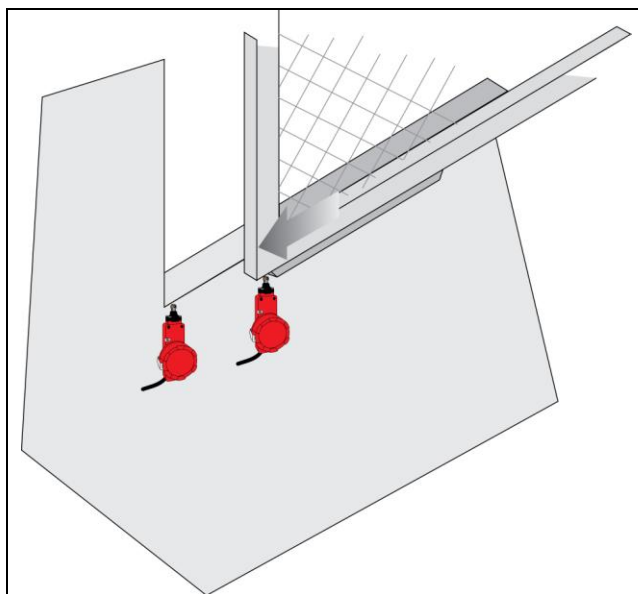
### FEATURES/BENEFITS

- Snap-action contacts with positive break
- Positive action push plunger breaks current upon opening of door or aperture
- IP67; NEMA 1, 3, 4, 12, 13
- Simple installation
- Broad selection of switches and actuators
- Visibly a safety product (RED Color)


Figure 1. GSX Series Safety Switch



Figure 2. GSX Series Safety Switch Application



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	<b>WARNING</b>
<b>RISK TO LIFE OR PROPERTY</b> 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. <b>Failure to comply with these instructions could result in death or serious injury.</b>	

## 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.

	<b>WARNING</b>
<b>MISUSE OF DOCUMENTATION</b> <ul style="list-style-type: none"><li>• The information presented in this application note is for reference only. Do not use this document as a product installation guide.</li><li>• Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.</li></ul> <b>Failure to comply with these instructions could result in death or serious injury.</b>	

## 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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