

## Application Note

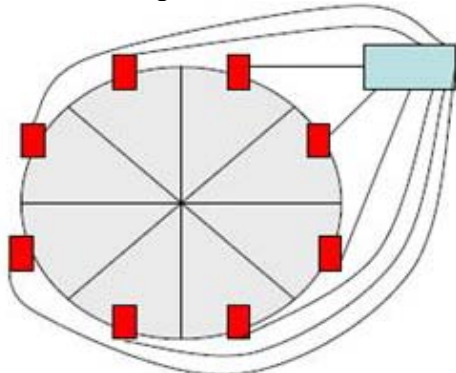
# GKME Dual Connection MICRO SWITCH™ Safety Switches

### BACKGROUND

Safety switches are typically manually point-to-point wired to a safety module, providing a safeguard to machine safety. Point-to-point wiring requires cable routing to multiple doors and the connector box. It reduces safety when the machine requires maintenance and is very timely. Manual point-to-point wiring increases cost, time and risk.

Some machine types are either modular in OEM production or modular in end user use allowing the OEM to have several optional machine modules that end users can order or so the end user can reconfigure the machine to meet their different needs. In both cases, maintaining the safety circuit and avoiding wiring errors can be a challenge.

**Figure 1. Product Used in this Application • Traditional Point to Point Configuration**



### SOLUTION

The GKME Dual Connection MICRO SWITCH™ safety switch solution comprises of an 'in' connector and an 'out' connector, allowing for connection to the next switch; the chain is terminated with a single connection (GKMC or GKMD style). Having a dual connection effectively maintains a safety circuit. If one switch is removed from a chain the safety circuit is then broken and the machine will stop. There is the capability of reconfiguring the machine by breaking the chain, removing the module and reconnecting the chain.

**Figure 2. Product Used in this Application • Traditional Point to Point Configuration**



### GKME SERIES BENEFITS

- Integrated cable or connector(s) reduces installation time and costs
- Design allows side-by-side mounting and daisy-chaining from switch to switch
- Easy to apply to multiple door modular machinery – no difficulty in wiring small switch enclosures
- Small door-swing radius allows use down to 160 mm (6.3 in)
- Complies with global requirements: UL listed, CSA certified, CE compliant, SIL 3 capable

# GKME Dual Connector Safety Switch

## **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.**

## **WARNING**

### **MISUSE OF DOCUMENTATION**

- The information presented in this application note 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.**

## **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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004760-3-EN IL50 GLO Printed in USA  
January 2011  
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