



SENSING AND CONTROL

Quick Reference Guide

Honeywell is committed to manufacturing safety... and we've doubled our product line to prove it.

Select from a broad line of switches to help keep your lines up and running

Whether you're an end-user or OEM, you face an ongoing challenge: to keep your machines and equipment operating safely and productively, while meeting all global workplace safety standards.

When you need comprehensive solutions for machine safeguarding, Honeywell helps you meet the challenge with one of the industry's broadest switch portfolios. Select from an impressive range of product options for critical potential applications, including key-operated interlock switches, cable-pull switches, and hinge-mount switches, all with positive-opening contacts or non-contact products for door detection. A wide variety of product sizes, sealing alternatives, enclosure materials, actuator styles, and contact options provide flexibility and comply with most international standards.



GKM Series Global Miniature



FF and FFS Series Non-contact

| Switch product series | GKM Series Global Miniature | FF and FFS Series Non-contact |
|--|--|---|
| Attributes | Key switch - very small, cable/connector fitted | Contact-less door detection; very small, cable/connector fitted |
| Potential applications | Small doors and apertures | Small doors and apertures |
| Housing | Glass-filled polyester | ABS resin filled, stainless steel |
| Approvals | UL/CSA, CE | UL/CSA, CE |
| IEC/NEMA rating | IP66/67; NEMA 1, 12, 13, EN60529 | IP67; NEMA 4 |
| Differentiator | Daisy-chain capability | Large actuation window to reduce misalignment issues |
| Body dimensions (less levers) H x W x D mm [in] | 69,4 mm x 34,0 mm x 16,0 mm [2.73 in x 1.34 in x 0.63 in] | 82.5 mm x 19 mm x 17 mm [3.25 in x 0.75 in x 0.67 in] |
| Temperature | -25 °C to 85 °C [-13 °F to 185 °F] | -10 °C to 55 °C [14 °F to 131 °F] |



924CE Series Miniature



GKE Series Dual Entry Safety Interlock



GKN Series Safety Interlock

| Switch product series | 924CE Series Miniature | GKE Series Dual Entry Safety Interlock | GKN Series Safety Interlock |
|--|--|--|---|
| Attributes | Very small, cable/connector fitted | Key switch - small standardized housing | Standard offering, three conduit minimal variances |
| Potential applications | Small doors and apertures | Small doors and apertures | Small/medium doors & apertures |
| Housing | Die-cast | Glass-filled polyester | Glass-filled polyester |
| Approvals | UL/CSA, CE | UL/CSA, CE, CCC | UL/CSA, CE, CCC |
| IEC/NEMA rating | IP67 | IP66; NEMA 1, 12, 13 | IP67; NEMA 1, 4, 12, 13 |
| Differentiator | Toughest little safety switch available; design can be stacked | IEC 20 mm pricing, new keys, one SKU for many applications | Common footprint, flexible key, one SKU for many applications |
| Body dimensions (less levers) H x W x D mm [in] | 49 mm x 40 mm x 16 mm [1.93 in x 1.57 in x 0.63 in] | 92,2 mm x 24,2 mm x 29,4 mm [3.63 in x 0.95 in x 1.16 in] | 90 mm x 40 mm x 33 mm [3.55 in x 1.57 in x 1.30 in] |
| Temperature | 0 °C to 70 °C [32 °F to 160 °F] | -25 °C to 85 °C [-13 °F to 185 °F] | -25 °C to 70 °C [-13 °F to 158 °F] |

Potential applications—from packaging to printing presses, machine tool to textile equipment



GSS Hinge Mount Safety Limits



GSS Series Safety Limits



GK Series Dual-Entry Key-Operated Safety Interlock

| | | | Switch product series |
|--|--|--|--|
| Mounted to the door hinge - detects door angle | Global safety switch | Heavy-duty key switch | Attributes |
| Medium/large doors & apertures | Medium/large doors | Large, heavy door applications | Potential applications |
| Glass-filled polyester; die cast | Die cast | Die cast | Housing |
| UL/CSA, CE | UL/CSA, CE | UL/CSA, CE | Approvals |
| IP66; NEMA 1, 4, 12, 13 | IP66; NEMA 1, 4, 12, 13 | IP67; NEMA 1, 4, 12, 13 | IEC/NEMA rating |
| Gold-plated contacts available; tamper resistant design | Gold-plated contacts available | Positive opening contacts designed to open welded contacts | Differentiator |
| 83,0 mm x 30,5 mm x 30,0 mm [3.27 in x 1.2 in x 1.18 in] | 83,0 mm x 30,5 mm x 30,0 mm [3.27 in x 1.2 in x 1.18 in] | 121,6 mm x 42 mm x 42,6 mm [4.79 in x 1.65 in x 1.68 in] | Body dimensions (less levers) H x W x D mm [in] |
| -25 °C to 85 °C [-13 °F to 185 °F] | -25 °C to 85 °C [-13 °F to 185 °F] | -25 °C to 85 °C [-13 °F to 185 °F] | Temperature |



GKS Series Multi-Entry Trapped Safety Interlock



GKL/R Dual-Entry Solenoid Safety Interlock



CPS Series Cable Pull Safety

| | | | Switch product series |
|--|---|--|--|
| Trap-and-hold the key until hazard has been removed | Heavy-duty key switch/solenoid lock | Single/dual head-ropes pull | Attributes |
| Large, heavy door applications | Large heavy door & machine apps | Conveyor applications | Potential applications |
| Glass-filled polyester | Die cast | Die cast | Housing |
| UL/CSA, CE, CCC | UL/CSA, CE | UL/CSA, CE | Approvals |
| IP67; NEMA 1, 4, 12, 13 | IP67; NEMA 1, 4, 6P, 12, 13 | IP66/67; NEMA 1, 4, 12, 13 | IEC/NEMA rating |
| Uses solenoid to trap key, allows combinations up to four contacts | Daisy-chain capability | Rugged housing, large wiring cavity for easy of installation | Differentiator |
| 196,8 mm x 40 mm x 41 mm [7.75 in x 1.57 in x 1.61 in] | 149,0 mm x 110,0 mm x 48,8 mm [5.85 in x 4.33 in x 1.92 in] | 165,1 mm x 79,8mm x 325,9 mm [6.5 in x 3.14 in x 12.75 in] | Body dimensions (less levers) H x W x D mm [in] |
| -25 °C to 50 °C [-13 °F to 122 °F] | -25 °C to 85 °C [-13 °F to 185 °F] | -40 °C to 85 °C [-40 °F to 185 °F] | Temperature |

Honeywell's expanded portfolio offers the best options...

Honeywell offers you choices to meet your needs in the safety arena. Designed with OEMs in mind, we offer safety switches in every size. Miniature switches – less than 50 mm [2 in] square – offer the OEM options for smaller doors and openings. Large, heavy doors are served by larger trapped key and solenoid key switches. Cable pull switches may be used for conveyor or perimeter guarding. And, all our products are backed by the Honeywell brand, service, and global support.

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this catalog is for reference only. DO NOT USE this document as a product installation information.
- 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 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.

WARNING

IMPROPER INSTALLATION

- Consult with local safety agencies and their requirements when designing a machine-control link, interface, and all control elements which affect safety.
- Strictly adhere to all installation instructions.

Failure to comply with these instructions could result in death or serious injury.

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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