

MICRO SWITCH™ Electromechanical Safety Switches

GSS Series

004791

Issue 1

Datasheet



DESCRIPTION

Honeywell's MICRO SWITCH™ GSS Series electromechanical safety switches are comprised of different groups of safety switches designed to either EN50041 or EN50047 standards. GSS Series safety switches are agency certified for global applications, and feature positive opening normally closed contacts (☛). The switch's red body color easily identifies the switch for safety applications. Although these switches are designed for safety applications, they can also be applied in non-safety applications.

The GSA Series metal limit switches are designed to the EN50041 standard with the 30 mm x 60 mm mounting pattern. Available with up to four contacts and a variety of actuator heads, the GSA Series limit switches are suitable for a wide variety of applications.

The GSC Series and GSE Series metal safety switches are designed with an integral hinge lever. The body of the switch is designed to the EN50047 standard with 20 mm to 22 mm mounting. For applications requiring a similar safety switch to the EN50047 standard with a high-strength thermoplastic housing and the integral hinge lever, the GSD Series safety switch can fill the need for this requirement. Where there is limited space on equipment or machinery, the GSC and GSD Series switches with the smaller housing are the preferred solution. As an alternative, the GSC, GSD, and GSE Series can be supplied with the traditional style of side rotary lever or top plunger actuation.

VALUE TO CUSTOMERS

- Operating heads can be rotated in 90° increments for installation flexibility
- All NC contacts (normally closed contacts) are positive opening when actuated
- Removable contact block for ease of wiring

Sensing and Productivity Solutions

FEATURES

- Epoxy coated metal zinc housing (GSA Series, GSC Series, or GSE Series)
- Glass-reinforced thermoplastic housing (GSD Series)
- Red body color for easy safety recognition
- Mounting to EN50041 (GSA Series), or EN50047 (GSC Series, GSD Series, and GSE Series)
- Choice of head/actuator types: pin plunger, roller plunger, side rotary standard lever, side rotary offset lever, top roller lever, or hinge lever
- Wide selection of NC (normally closed) and NO (normally open) contact options
- Different threaded conduit options for global applications
- Environmentally sealed for indoor or outdoor applications
- CE, CSA, and UL agency certifications
- Designed and agency evaluated for safety functions up to and including a SIL3 level (GSA and GSD Hinge Lever)

POTENTIAL APPLICATIONS

- Gates, guards, or doors for:
 - Agricultural and construction equipment
 - Die cast machinery
 - Elevators and moving stairs
 - Machine tools
 - Material handling
 - Packaging machinery
 - Plastic molding machinery
 - Scissor/platform lifts
 - Special purpose machinery

DIFFERENTIATION

- Up to four electrically independent contacts for control and monitoring as required
- Gold contacts available for low energy applications
- Side rotary actuator incorporates dual bearing design for increased life
- Specialty contact option, sequential action (GSA Series)
- Catalog listings designed and evaluated up to and including a safety integrity level 3 (SIL3) per IEC 61508-2:2010 (GSA Series and GSD Hinge Lever Series)

PORTFOLIO

Honeywell offers other non-interlocking safety switches, non-contact safety switches ([FF Series](#)) and cable/rope-pull safety switches ([1CPS & 2CPS Series](#)). Honeywell safety interlocking switches include the metal EN50041 [GK Series](#), metal solenoid [GKL/R Series](#), miniature plastic [GKM Series](#), EN50047 plastic body [GKE Series](#), and plastic body [GKN Series](#).