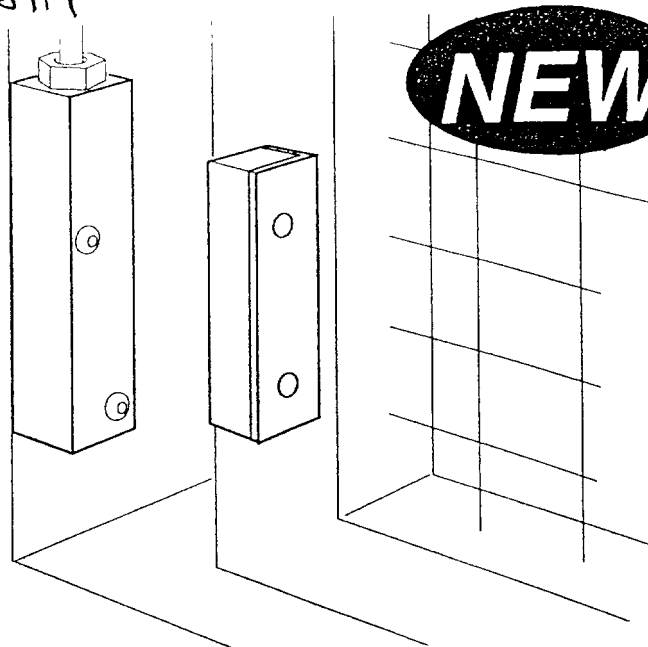


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ADVANCE INFORMATION

Guardmaster® Ferrogard GS1 & GS2 Flameproof & Industrial Heavy Duty Magnetically Actuated Guard Switches.



The Guardmaster Ferrogard GS1 & GS2 are non-contact magnetically operated guard switches and are suitable for low to medium (category 1) risk applications. The choice consists of the GS1 manufactured from brass or stainless steel, suitable for heavy duty industrial applications, or the GS2 also manufactured from brass or stainless steel with a full flameproof certification from BASEEFA making it ideal for the more demanding or hazardous environments. They are both fully sealed to IP68, making them water, oil & dustproof. They are both supplied complete with an actuator which is cast from Alcomax III, a highly durable and strong mixture of aluminium & cobalt, capable of withstanding extreme conditions and giving typical operating distances of GS1 15mm & GS2 13mm allowing for ample tolerance to misalignment, without loss of performance.

Ambient Operating Conditions

Temperature range

GS1 Industrial: -10°C to + 80°C.

GS2 Flameproof: -10°C to + 125°C.

Protection: Totally submersible to IEC144 class IP68 at 200psi/14Kgcm.

Certification.

GS2 Flameproof only BASEEFA approval for all group II A, B & C gases, including Hydrogen
Conforms to BASEEFA SFA3009 1972 Temp class T6.
BASEEFA certificate No.81122:Exs II T6

Contacts

Typical no. of operations: Single pole N/O
100 x 10⁶ Mechanical.
5 x 10⁶ Electrical.

Performance. (Typical)

Close time. 3.0ms.

Dropout time. 2.1ms

Bounce time. 0.7ms

Shock tolerance: up to 50G.

Vibration tolerance: 7-15G at 10-2000 Hz

Construction

Housing for GS1 Industrial: Brass or Stainless Steel.
Housing for GS2 Flameproof: Brass or Stainless Steel
Cable for Industrial: 2m of 24/0.2mm 2 core PVC
Cable for Flameproof: 3m of Polyolefin.

Installation

Conduit: Flexible conduit can be fitted to the industrial switch by removing the gland nut and replacing with a suitable conduit termination

Earthing: It is recommended that the switch bodies should be earthed via the fixing screws

Electrical Details

These switches are not for use in dc circuits

Max volts. 250V ac (rms)

Max amps. 2A.

Max VA. 100 at 50V 220 at 110V.

500 at 250V. If Overloaded the switch fails to an open circuit condition

A back up fuse must be wired in series with the switch, maximum rating 6A HRC to BS88 However to protect against switch failure, the recommended fuse rating is less than 2A. On Capacitive circuits a series resistor must be fitted to limit the maximum charge rate to 2 A.

Actuation

Operating distance

GS1 Industrial. 15mm (typical)

GS2 Flameproof: 13mm (typical)

Differential: 17mm (typical)

Ordering Information

Industrial GS1 CW Actuator

02048 Brass

02049 Stainless Steel

Flameproof GS2 CW Actuator

02048 Brass

02049 Stainless Steel