

GKM Series

(Global Miniature Safety Key Interlock Switch)

FEATURES

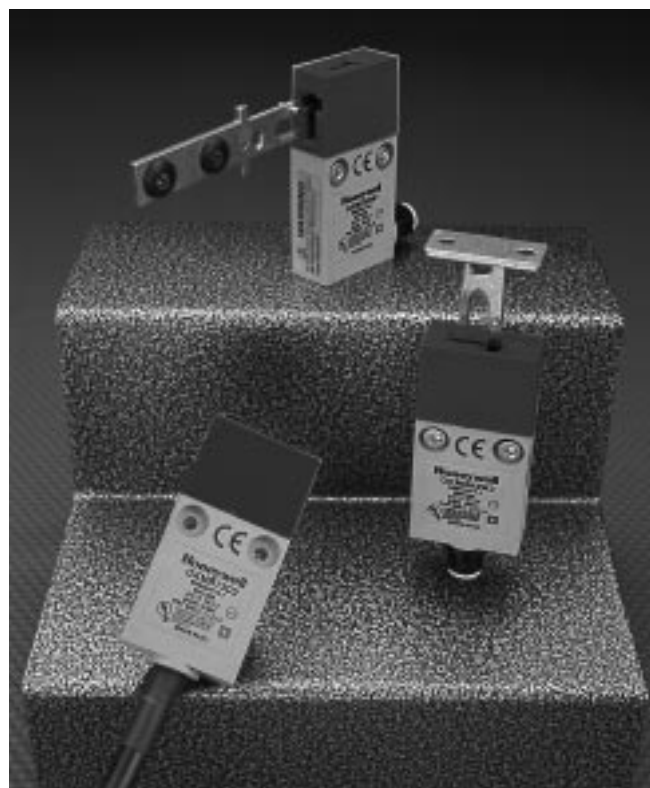
- Red body colour
- Integrated cable or connector(s)
- Bottom or side entry cable
- 90° and straight key
- Top or side key entry
- High switching current capabilities
- Extremely compact enclosure
- Positive opening operation of Normally Closed contacts conforming to EN 60947-5-1-3
- IP 67 Enclosure rating
- Stackable design allows one switch on top of the other
- Through wiring option (dual connector)
- Dust cap for unused key entry
- Robust stainless steel keys
- UL listed; CSA certified, CE approved

BENEFITS

- Immediately recognisable as safety component
- Reduced installation time and costs
- Flexibility in mounting/actuation options
- Switch equipment directly and through safety control modules
- Fits into extremely compact spaces
- Suitable for wet applications
- Extremely simple mechanical redundancy as well as electrical redundancy
- Very easy to apply to multiple door modular machinery - no difficulty in wiring small switch enclosures
- Durable and tough design



(Pending)



Used alone as Category 1 safety components or, in conjunction with other safety switches and our complete range of safety relays, it is possible to construct comprehensive protection schemes with Category 2, 3 or 4 compliance.

The preleaded versions allow rapid fit, easy cable routing and function testing which cut costs dramatically in OEM applications. Simple upgrade guarding solution for End User applications.

Low energy basic switches are rated as follows:

Operating Voltage U_e	1 to 50Vac or Vdc
Operating Current I_e	1 microamp to 100mA

Example of catalog listing using a low energy basic switch - GKMA19W1

WARNING

MISUSE OF DOCUMENTATION

- The information presented in this product sheet (or catalogue) is for reference only. DO NOT USE this document as system 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.

GKM Series Miniature Safety Interlock Switches

Technical Data

Mechanical

life >1 Million operations

Degree of protection

IP 66/67, EN 60529
NEMA 1, 12, 13

Temperature

range -25 to +85 °C
(-13 to +185 °F)

Approvals*

IEC 60947-5-1,
EN 60947-5-1, EN 1088,
EN 60204,
UL508,
CSA22-2-14, UL748C
Utilization category
AC15, B300
DC13, Q300

Vibration

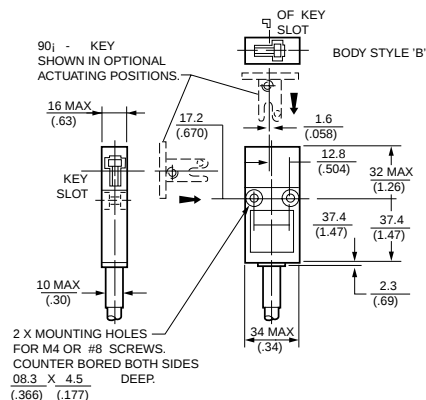
IEC 68-2-6
(BS 2011, Part 2.1 Fc) 10g

Shock

IEC 68-2-27
(BS 2011, Part 2.1 Ea) 50g

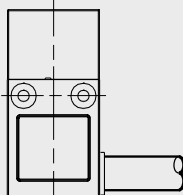
Minimum Door Radius 160mm (6.3 in.)

* See Standards (page 151)



Body Style

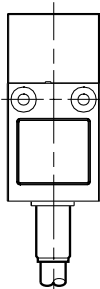
Cable/Connector



A

CABLE LENGTHS IN 1 METRE INCREMENTS

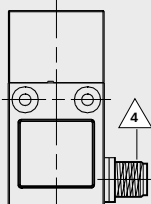
1



B

CABLE SPEC: SJTO RATED P.V.C. TYPE

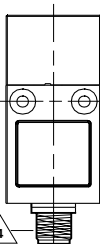
2



C

3 METRES IS NORMAL MAXIMUM CABLE LENGTH.

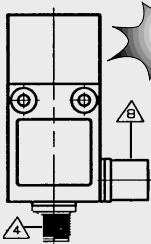
3



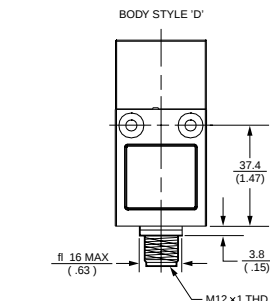
D

ZERO INDICATES NO CABLE BUT CONNECTOR

0



E



4 Micro-change DC Style M12, 4 Pin with external threads/male
8 'F' version also has 4 Pin with internal threads/female

▲ Low Energy Contacts

Note: See page 157

Ordering:

GKM

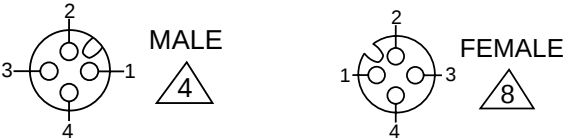
X

X

Example: GKMD03W2

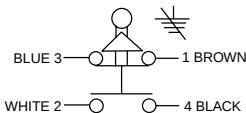
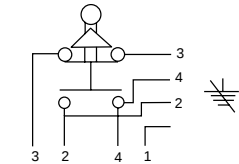
Switch Type

CONNECTOR PIN-OUTS



Key Style

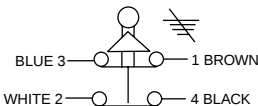
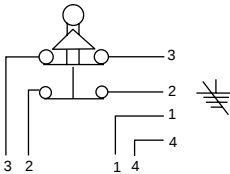
SLOW-ACTION CONTACTS
BREAK BEFORE MAKE
1 NORMALLY CLOSED/1 NORMALLY OPEN



SLOW-ACTION CONTACTS
BREAK BEFORE MAKE
1 NORMALLY CLOSED/1 NORMALLY OPEN
LOW ENERGY CONTACTS

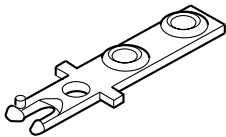


SLOW-ACTION CONTACTS
2 NORMALLY CLOSED

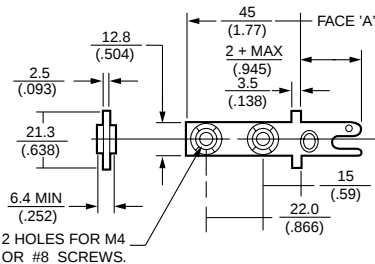


SLOW-ACTION CONTACTS
2 NORMALLY CLOSED
LOW ENERGY CONTACTS

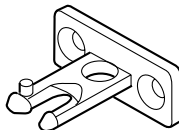
Details of straight key (stainless steel)



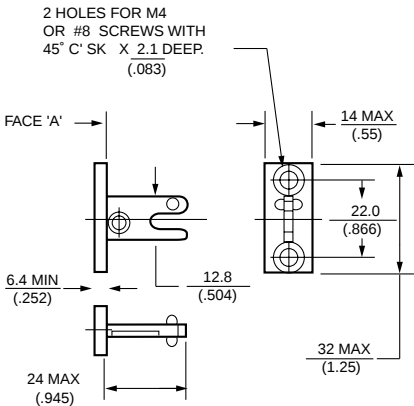
Replacement part number GKZ51M



Details of 90° key (stainless steel)



Replacement part number GKZ52M



3

9⁺

6

7⁺

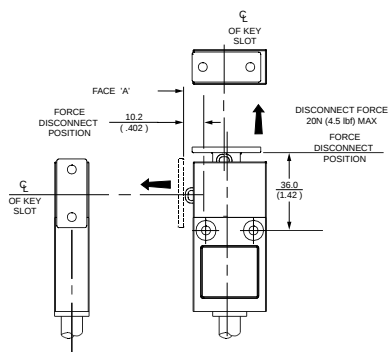
W1

W2

X

WX

Optional Key Positions



SLOT DUST COVER

