

## GKM Series

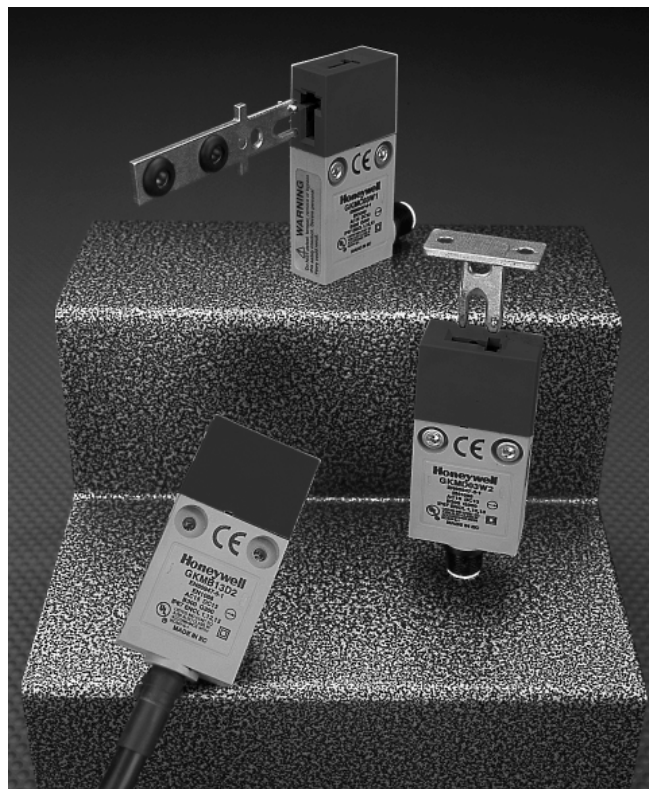
### Global Miniature Safety Key Interlock Switch

#### FEATURES

- Red body colour
- Integrated cable or connector(s)
- Bottom or side entry cable
- 90° and straight key
- Top and side key entry
- Extremely compact enclosure
- Positive opening operation of Normally Closed contacts conforming to IEC/EN 60947-5-1-3
- IP 67 Enclosure rating
- Stackable design allows side-by-side mounting
- Through wiring option (dual connector)
- Dust cap for unused key entry
- Robust stainless steel keys
- UL listed; CSA certified, CE compliant, BG-approved
- High current switching capabilities
- Small door swing radius allows use down to 160 mm (6.3 in)

#### BENEFITS

- Immediately identifiable 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
- Complies with global requirements



Used alone as Category 1 per EN 954-1 safety component or, in conjunction with other safety switches and our complete range of safety control modules, it is possible to construct comprehensive protection schemes with Category 2, 3 or 4 compliance.

The prelead 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.

Order switch and key separately.

#### **▲ 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 Key Interlock Switches

#### Technical Data

##### Mechanical

**life** >1 Million operations

##### Degree of protection

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

##### Temperature range

-25 °C to +85 °C /  
-13 °F to +185 °F

##### Approvals\*

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

##### Ratings

Ac15, B300  
Dc13, Q300  
for Low energy (Gold) versions:  
Operating Voltage  $U_e$ :  
1 to 50 Vac or Vdc  
Operating Current  $I_o$ :  
1  $\mu$ A to 100 mA

**Cable spec.:** SJTO Rated P.V.C. type

##### Vibration

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

##### Shock

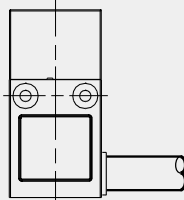
IEC 68-2-27  
(BS 2011, Part 2.1 Ea) 50 g

##### Door Radius

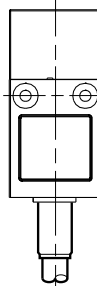
160 mm / 6.3 in

\*See Standards (<http://content.honeywell.com/sensing/prodinfo/safety/catalog/en/v6si179e.pdf>)

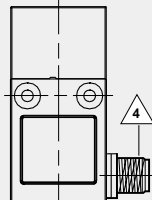
#### Body Style



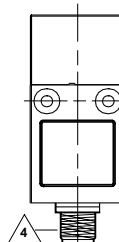
**A**



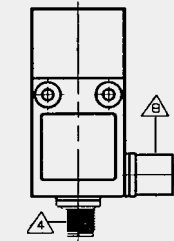
**B**



**C**



**D**



**F**

#### Cable/Connector

1 METRE CABLE LENGTH

**1**

2 METRE CABLE LENGTH

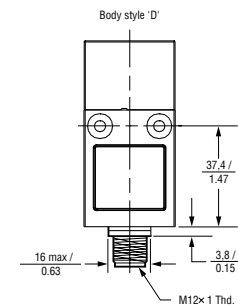
**2**

3 METRE CABLE LENGTH.

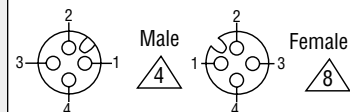
**3**

ZERO INDICATES NO CABLE BUT CONNECTOR

**0**



#### CONNECTOR PIN-OUTS



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

#### Ordering:

**GKM**

**X**

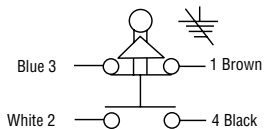
**X**

**Example:** GKMD03 + GKZ52M

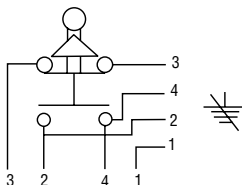
Switch Type (Slow-action contacts)

Key Style (sold separately)

**1 NORMALLY CLOSED/1 NORMALLY OPEN**  
BREAK BEFORE MAKE



(GKMF DUAL CONNECTOR VERSIONS)

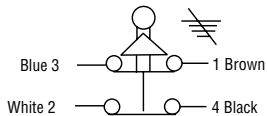


LOW ENERGY (GOLD) CONTACTS

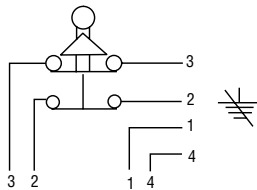
3

9<sup>▲</sup>

**2 NORMALLY CLOSED**



(GKMF DUAL CONNECTOR VERSIONS)

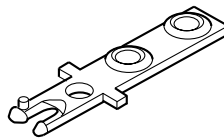


LOW ENERGY (GOLD) CONTACTS

6

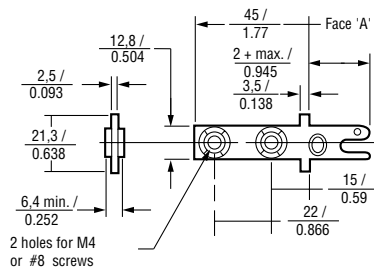
7<sup>▲</sup>

▲ GOLD PLATE OVER SILVER

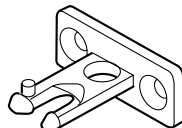


Details of straight key  
(stainless steel)

Replacement part  
number GKZ51M

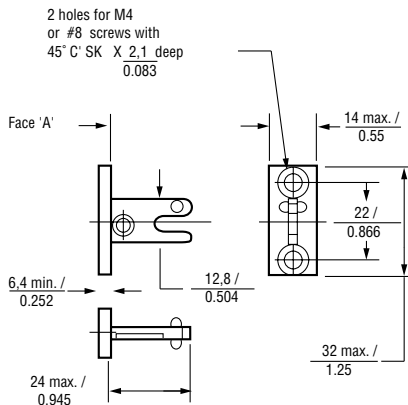


1



Details of 90° key  
(stainless steel)

Replacement part  
number GKZ52M



2

Key ordering

X

+

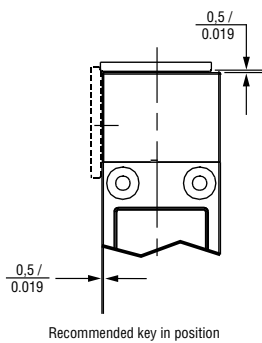
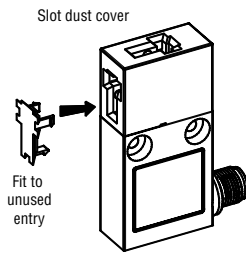
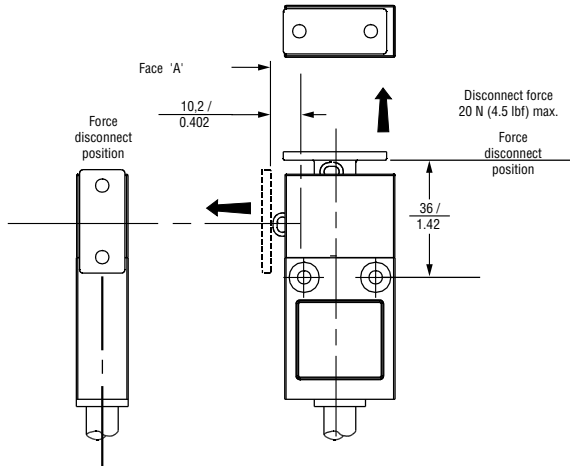
GKZ5

X

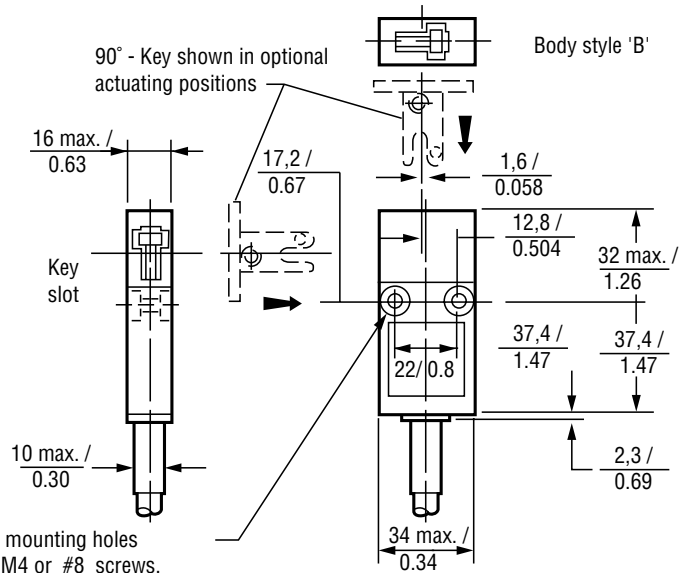
M

## Optional Key Positions

## Dimensions



### Dimensions in mm / in



2 X mounting holes for M4 or #8 screws. Counter bored both sides 09,3 X 4.5 deep. 0.366 0.177