

# Magnetic non-contact safety switches

## Operation:

All ABB Jokab Safety Magnetic Non-Contact Safety Switches are designed to conform to IEC 947-5-3 and be used as directed by ISO12100, ISO14121 and EN 60204-1.

They have magnetic sensing which provides a wide (>12mm) sensing distance and provides a high tolerance to misalignment after sensing.

They can operate from 4 directions even in extreme environments of temperature and moisture.

They have volt free high power switching capability (either 1A. or 2A. ac/dc) and can be used independently to switch low risk applications, or connect to a Safety Relay to provide higher safety levels.

## Features:

Magnetic High Power Switching up to 230V.ac 2A.

Dual channel safety output 2NC (1NO auxiliary optional)

Wide switching distance up to 12mm

High tolerance to guard misalignment

Enclosure Protected to IP67 or IP69K

Conformance to IEC 947-5-3 PDF-S PDF-D

Choice of miniature, compact, wide or barrel type housings.

Choice of high specification plastic or Stainless Steel 316 (Food Industry Compatible)

High temperature stability up to 80C.(Plastic) and 105C. (Stainless Steel)

Resistance to many organic and inorganic chemicals

Resistant to high temperature hosing and detergent washdown

Volt free contacts – up to 230V.ac 2A. and 24V.dc 2A. (Internally Fused)

## Application:



ABB Jokab Safety Coded Non-Contact switches are designed to interlock hinge, sliding or removal guard doors.

They are specifically advantageous when :

- poor guard alignment exists and a wide tolerance to misalignment is required
- high hygiene is required e.g. food industry hose down
- high switching capacity is required

When used in combination with Dual Channel Safety Relays they can be used to provide up to Ple / Category 4 to ISO 13849-1

## Plastic versions:

The Plastic Sense range has been developed for non-contact guard door interlocking in the applications of general factory automation, packaging and some food processing industries.

Supplied with Screw Cap prevent contamination from deposits.



**Sense 2**

Miniature industry standard design. 22mm fixing centres, available with Left or Right cable exit.



**Sense 4**

Universal 22mm fixing centres.



**Sense 6**

Industry standard wide fitting. Front face actuation for large guards.



**Sense 8**

European industry standard fitting. End cable exit.



**Sense 10**

Compact slim fitting housing - suitable for fitting to applications where space is limited.



**Sense 12**

M30 threaded body – easy to mount