

Klippon® Relay

CUBESERIES FG – Relay modules with forced guided contacts

Switching status monitoring of signals

Relays with forced guided contacts are a proven component in functional safety. The CUBESERIES FG uses relays with positively driven contacts in accordance with EN 61810-3 Type B. This makes it ideal for signal monitoring in applications designed to protect people and machinery. The industrial relays from Europe deliver robustness, reliability and durability.

The CUBESERIES FG relays modules with forced guided contacts optimize handling and storage thanks to their pre-assembled kits. Furthermore, they reduce wiring time with PUSH IN connection technology and the comprehensive cross-connectors.



YOUR SPECIAL ADVANTAGES:

- KIT consisting of relay, socket, retaining clip and status indicator
- Fast wiring with PUSH IN
- 2 CO contacts according to EN 61810-3 Type B
- 100 % function-tested relay modules

CE



FORCED GUIDED CONTACTS IN DETAIL

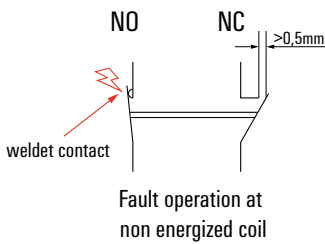
Relay modules with forcibly guided contacts use elementary relays according to IEC 61810-1 with a contact set according to IEC 61810-3. From the outside, they can hardly be differentiated from relays with conventional contacts, if at all.

Due to their design, an opening failure of forcibly guided contacts can be reliably detected. Relays with such contacts have the following additional characteristics compared to relays with conventional contacts:

- Forcibly guided NC and NO contacts are designed in such a way that they cannot be closed at the same time
- If a contact of a forcibly guided contact set is welded, the antivalent contacts cannot close and the contact opening must be $> 0.5 \text{ mm}$
- The contacts are located in contact chambers and are thus specially protected against other contacts and against the coil

Due to these normative requirements, the design and manufacturing effort for relays with positively driven contacts is much higher.

Relay with forcibly guided contacts



The normally open contact (NO) is welded in this example. In this case, relays with forcibly guided contacts cannot have a normally closed contact (NC) which is closed in the de-energized state. In this way, the NC and NO contacts cannot be closed at the same time and an opening failure can be reliably detected. It is mechanically ensured that the NC contact remains open with a minimum contact gap of 0.5 mm even in the de-energized state.

TECHNICAL DATA

Type	Rated control voltage	Test button	Status-LED	Free-wheeling diode	Connection	Contact type	Continuous current	Qty	Order No.
CRIKIT P 24VDC 2CO L/D/MC FG	24 V DC		●	●	PUSH IN	2 CO	6 A	10	3162280000
CRIKIT S 24VDC 2CO L/D/MC FG	24 V DC		●	●	Screw	2 CO	6 A	10	3162270000



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