



Data sheet

Multi IO Extension Switch 590

Bi-stable coupling relay for KNX Multi IO



(Art. # 5231)

Application area

The Multi IO Extension Switch 590 serves as a power-saving alternative to commercial standard coupling relays. The coupling relay is controlled as a mono-stable relay, but uses a bi-stable relay internally, thus reducing the holding current by up to 95%.

The Multi IO Extension Switch 590 has an integrated fuse to protect high-quality equipment.

Technical Specification



Electrical safety

- Protection (acc. EN 60529): IP20

CE marking according to

- Low voltage directive 2014 / 35 / EU
- EMC directive 2014 / 30 / EU
- RoHS directive 2011 / 65 / EU
- EN 62368-1: 2020 + A11: 2020
- EN 50491-5-1: 2010
- EN 50491-5-2: 2010, EN 50491-5-3: 2010
- EN 61000-6-2: 2019
- EN 61000-6-3: 2007 + A1: 2011
- EN 63000: 2018

Environmental requirements

- Ambient temp. operating: - 5 ... + 45 °C
- Ambient temp. non-op.: - 25 ... + 70 °C
- Rel. humidity (non-condensing): 5 ... 93 %

Mechanical data

- Housing: plastic (PC)
- DIN rail mounted device, width: 1 units (18 mm)
- Weight: approx. 50 g

Controls and indicators

- LED (green) show relay state
- Glass fuse 5x20 mm, 10 A

Connectors

- Screw terminal (2 poles) for 24 V= input
- Screw terminal (3 poles) for 230 V~ output
- Cross-section of connectors: 1.5 ... 2.5 mm²

Output

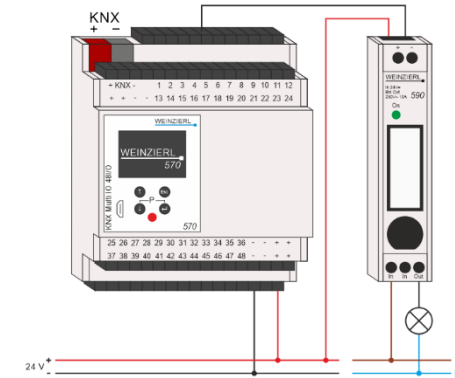
- Fuse max. 10 A
- Relay type: 250 V~ / 16 A, bi-stable
- Depending on load type (capacitive or inductive) the switching power can be reduced significantly.

Inputs

- Input voltage (signal) 24 V=
- Max. switch on current < 15 mA
- Holding current < 2 mA
- Min. switch on/off time 1 s

Installation Instructions

- The device may be used for permanent interior installations in dry locations or within distribution boards with DIN rail.



WARNING

- The device must be mounted and commissioned by an authorized electrician.
- The prevailing safety rules must be heeded.
- The device must not be opened.
- For planning and construction of electric installations, the relevant guidelines, regulations and standards of the respective country are to be considered.
- The device is a permanently connected equipment: A readily accessible disconnect device shall be incorporated external to the equipment.
- The power rating is indicated on the top side of the product.



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