

Relay outputs may be individually supplied with a voltage not exceeding 250 VAC, and loaded up to 2 A. Equipment is connected via screw terminals (PELV circuit)*. Work must always be performed with no power applied.

*As the result of special electronic protective measures, the relay outputs provide safe isolation according to the SELV and PELV specifications with respect to each other as well as with respect to earth/housing and other electronics. This enables mixed operation of 250 VAC and SELV/PELV circuits without causing mutual interference.

In the event of a module fault, an independent internal switch-off stage ensures that relay states are defined. This prevents jitter at the relay outputs.

Monitoring function

To monitor the correct functioning of the field module (novaLink telegram), an additional output (terminal 30) is provided. A voltage of approx. 1.23 V is outputted; this can be connected directly to an analogue input so that it can be evaluated. In case of a fault, this output will be < 0.6 V; several modules can be connected in parallel and evaluated for malfunctions with an analogue signal.

Labelling concept

The field module may be labelled under the transparent front cover. Proprietary perforated labels are available for this purpose.

Label text is generated in CASE Suite as a rule, and may be printed using commercially available printers.

LED display

The field module has a green LED (power) which lights up if the connection is correct and if voltage is supplied via the automation station.

Priority/watchdog or back-up power operation is indicated by the LED flashing at a frequency of approx. 2 Hz.

Four additional green LEDs indicate "on" status of the relay outputs. This is solely simulated feedback.

Back-up power operation

The **modu225** automation station provides the necessary supply voltage and output control telegrams via the novaLink connection. An additional, back-up power supply (24 VAC/DC) may be connected to terminals 31/32.

Priority / watchdog operation

Switching states are pre-selected using DIP switches on the field module. This allows each output to adopt a defined switching state in the event of a fault in the novaLink connection (power/AS failure, watchdog).

Change-over to watchdog or priority mode is effected:

- when **terminal 3** on the field module is at earth potential
- when novaLink delivers a faulty telegram or ceases to provide power

Mechanically coded jumpers select priority or watchdog operation as follows:

- **Jumper closed → priority operation** (factory setting)

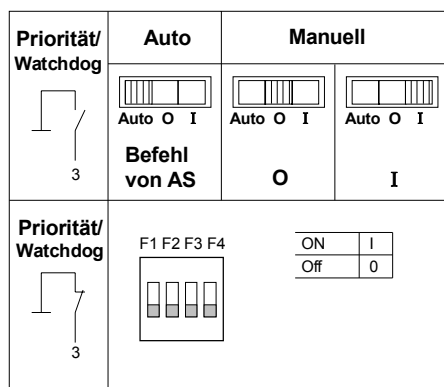
In priority mode, the switching status pre-selected by the DIP switches is fed through regardless of the position of the manual switch. Manual override by means of the manual switches is no longer possible.

- **Jumper open → watchdog operation**

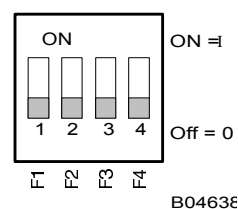
In watchdog mode, the switching status pre-selected by the DIP switches is fed through only when the manual switch is in the 'Automatic' position. Manual control is still possible, however.

Priority/watchdog table of functions

Bilder anpassen !!!!



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Monitoring function

An open collector output is available for monitoring whether the field module is functional. This output is activated in the event of a fault, and may be indicated or used directly as digital information.

Top-hat rail mounting

[Bild einfügen](#)

Dimension drawing

[Bild einfügen](#)

Wiring diagram

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