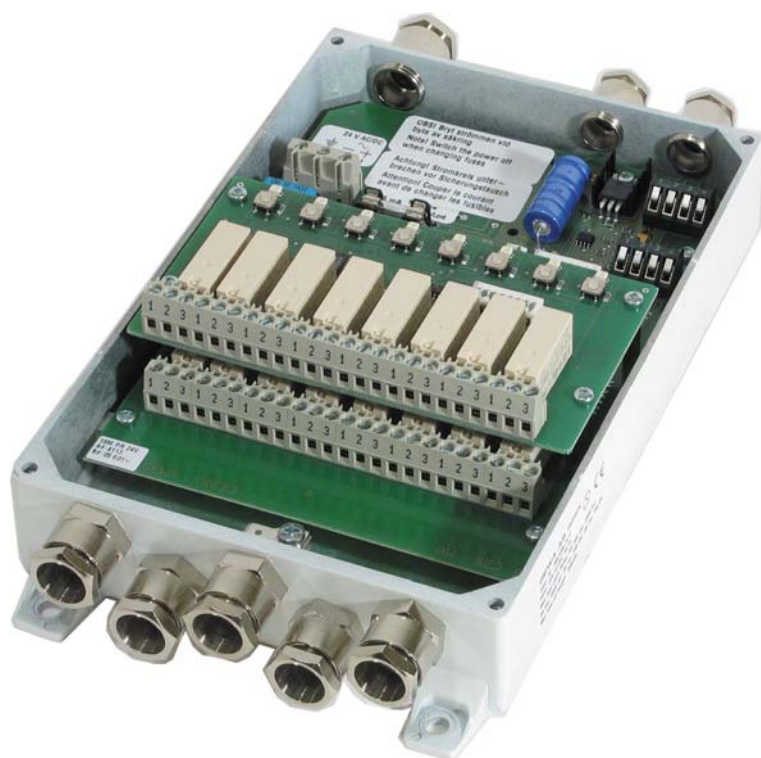**SE**   **Bruksanvisning IR-8M/16M 24V/230V**

GB   **How to use IR-8M/16M 24V/120/230V**

FR   **Mode d'emploi du récepteur 8/16 canaux IR-8M/16M 24V/120/230V**

DE   **Gebrauchsanweisung IR-8M/16M 24V/230V**

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GEWA AB | FALCK IGEL

GB   How to use IR-8M/16M 24V/120/230V

Description

IR-8M/16M 24V/120/230V is an 8/16-channel programmable IR receiver with 8/16 alternating relay switches. The receiver can be programmed with all GewaLink channels, 4096 codes and Infra-code. The receiver relays can independently be set for bistable (latching) or monostable (non-latching) function.

Detector Connection

The wires are colour-coded. Connect the wires as in the figure. If older types of detectors without yellow leadings are connected, a resistor at each detector input has to be removed. (Please contact GEWA for further information). Be careful when connecting the leadings! Making the wrong connection may damage the equipment. It is possible to connect up to two detectors. NOTE! The range is reduced if the detector eye is covered or in any other way obscured by curtains or furniture for example.

Relay Connection

The receiver has 8/16 voltage-free alternating relay switches which are connected according to the figure. See technical data for max relay load. When connecting inductive loads, motors and relays for instance, an interference suppression device should be used. In order to meet the isolation requirements when connecting both extra low and low voltage, there must be a distance between these leadings that corresponds to one relay output (3 terminal blocks). Alternatively, connect extra low and low voltage to different circuit boards (applies to IR-16M). The leadings for extra low voltage shall have the same isolation level as the low voltage leadings. Extra low voltage leadings can also be protected by additional isolation.

Fuse
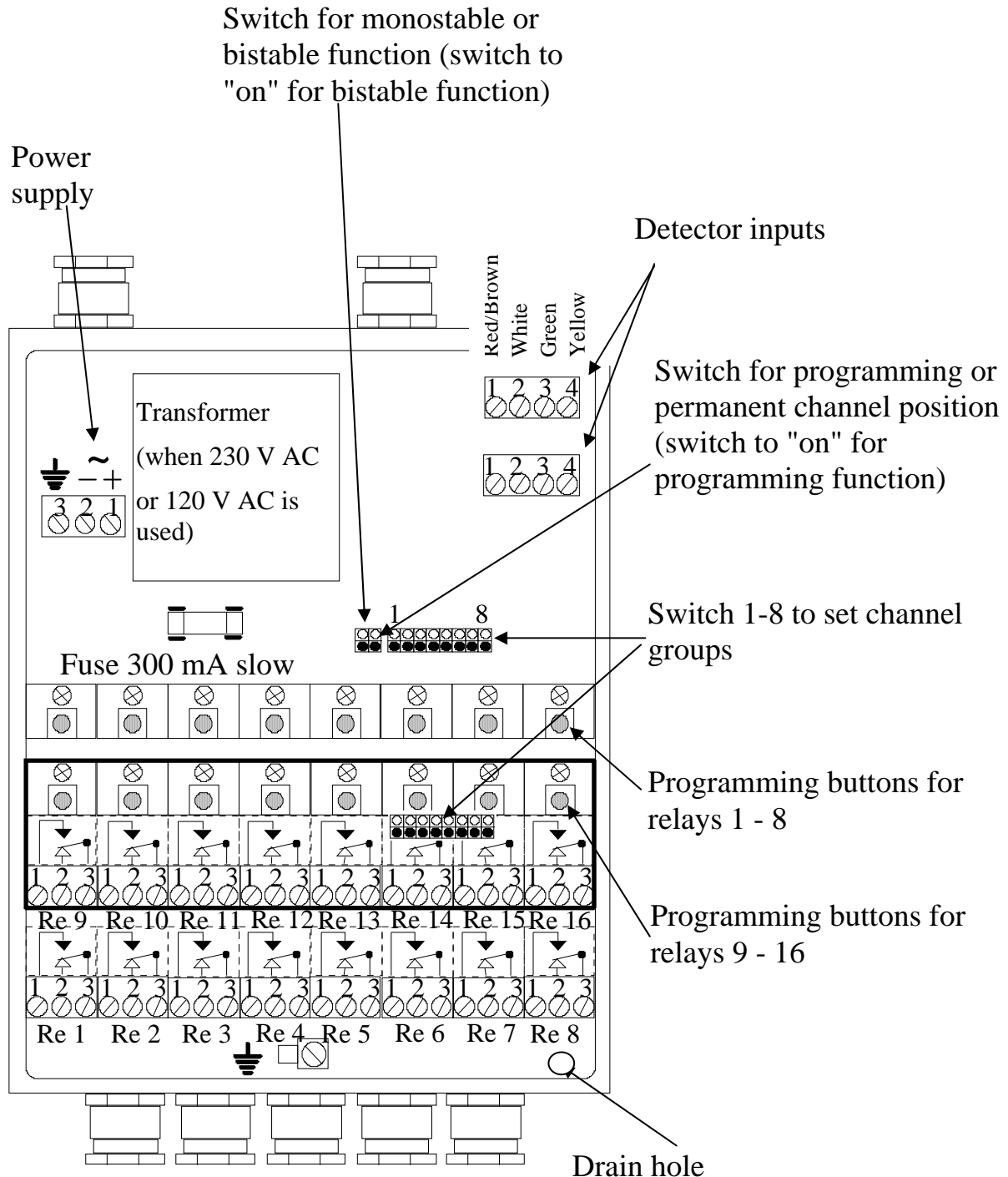
The in- and output on the IR-receiver must be externally protected by a 10 A fuse in a fuse box.

Supply Voltage

The supply voltage of the receiver should be 24 V AC/DC (+/-20%), or 120/ 230 V AC. See instructions near the power supply terminal blocks. **NOTE! The power must be switched off when changing fuses or in any other way working on the receiver.**

8

Bistable Function

There is a switch for monostable or bistable relay function. Use position "On" for bistable function and "OFF" for monostable function.

Switch for monostable or bistable function (switch to "on" for bistable function)

Power supply

Detector inputs

Red/Brown
White
Green
Yellow

1 2 3 4

Switch for programming or permanent channel position (switch to "on" for programming function)

Transformer (when 230 V AC or 120 V AC is used)

1 2 3 4

Fuse 300 mA slow

1 8

Switch 1-8 to set channel groups

Programming buttons for relays 1 - 8

Re 9 Re 10 Re 11 Re 12 Re 13 Re 14 Re 15 Re 16

Programming buttons for relays 9 - 16

1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3 1 2 3

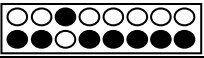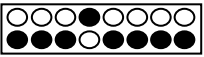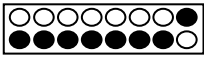Re 1 Re 2 Re 3 Re 4 Re 5 Re 6 Re 7 Re 8

Drain hole

Programming

When using programming or quick programming mode all 8 switches to set channel groups **must be** in "off" position on upper and lower board. Switch the programming/permanent position switch to "on". Decide whether the relay is to have a bistable or a monostable function by using the bistable/monostable function switch. Activate the desired channel on the IR transmitter at the same time as you press the programming button for relay 1. The receiver relay is activated and the indicator lamp flashes twice thus confirming the programming.Relay 1 is now programmed. Do the same thing for the second relay of the receiver but this time using programming button for Relay 2 and another transmitter channel and so on. If you are not satisfied with the selected channel repeat the process. **Warning! The corresponding relay is activated during programming.** GewaLink channels 0-127 (channel 62 has no function), 4096 codes and Infra-code can be programmed.

Quick Programming

Switch the programming/permanent position switch to "On". Decide whether the relay is to have a bistable or a monostable function by using the bistable/monostable function switch. Activate the first channel of the IR transmitter at the same time as you press two optional programming buttons. All the receiver relays are activated and the indicator lamps flashes twice thus confirming the programming. It is possible to reprogram each particular relay afterwards from monostable to bistable function or vice versa.

Permanent Channel Setting

The channel switches 1 - 8 can also be permanently set without programming. Set the programming/permanent setting switch to "Off". Set the channel groups according to the enclosed table. Choose monostable or bistable function using the monostable/bistable switch. NOTE! All relays will work according to the chosen setting, i. e. they will have monostable or bistable function.

Switches	Channel groups		Switches	Channel groups
On 1 8 ●○○○○○○○ ○●●●●●●●	00-07		On 1 8 ○○○○●○○○ ●●●●○●●●	32-39
On 1 8 ○●○○○○○○ ●○●●●●●●	08-15		On 1 8 ○○○○○●○○ ●●●●●○●●	40-47
On 1 8 ○○●○○○○○ ●●○●●●●●	16-23		On 1 8 ○○○○○○●○ ●●●●●●○●	48-55
On 1 8 ○○○●○○○○ ●●●○●●●●	24-31		On 1 8 ○○○○○○○● ●●●●●●●○	56-63 (Channel 62 has no function)
Filled point ● shows switch position				

Cleaning

Clean the case of the receiver using some washing-up liquid. Use only a damp rag, not a wet one.

Technical Data

Supply Voltage
IR-8M/16M 24V: 24V AC/DC (+/-20%) 50-60 Hz
IR-8M/16M 120V: 120V AC, 60 Hz
IR-8M/16M 230V: 230V AC, 50 Hz
Max connected voltage: 250V AC
Fuse: 300 mA slow
Max Current Consumption
IR-8M/16M 24V: 300 mA
IR-8M/16M 120V: 150 mA
IR-8M/16M 230V: 75 mA
Max Load each Relay: 7 (2) A load at 250V AC
                         1 A resistive load at 24V DC
                         1 A inductive load at 24V DC
                         (according to standard 947-5, DC13)
Total Max Load all Relays: 2000 VA
Max Detectors: 2
Programming Channels: GewaLink channels
                         0-127 (channel 62 has no function), 4096 codes
                         and Infra-code. Infra-code applies from serial
                         number: 382763.
Ambient Temperature Range: -20° - +35°C, (-4° - +95°F)
User enviroment: Indoor (IP-20)

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