

How to use IR-2ML with variants

Description

IR-2ML (incl variants) is a two-channel programmable IR receiver with two voltage-free alternating relay switches. The receiver can be programmed with all GewaLink channels, 4096 codes and Infra-code. Alternatively the receiver can be set in a position where the relays are activated irrespective of which channel is transmitted (Public Function). The receiver relays can independently be set for bistable (latching) or monostable (nonlatching) function.

Mounting

Snap off the lid and unscrew the frame from the base plate. Disconnect if necessary the detector cable so that the lid with the detector is not in the way when the receiver is connected. Fasten the base plate to the wall with the screw and connect all leads to the circuit board.

Detector Connection

The wires are colour-coded. Connect the wires as in the figure. If older types of detectors with only 3 wires will be used the receiver must be modified. (Please contact GEWA for more information). Be careful when connecting the leads! Making the wrong connection may damage the equipment. It is possible to connect up to two detectors.

Relay Connection

The receiver has two voltage-free alternating relay switches which are connected to terminal blocks Re 1 and Re 2. See technical data for max relay load. When connecting inductive load for instance motors and relays, an interference suppression device should be used.

Supply Voltage

Connect the power supply to the connection block between Re 1 and Re 2. The supply voltage for the receiver should be 12 - 24 V stabilized DC (-5% +20%) or 24 V AC (+/- 20%). When using DC, note the polarity.

Bistable Function

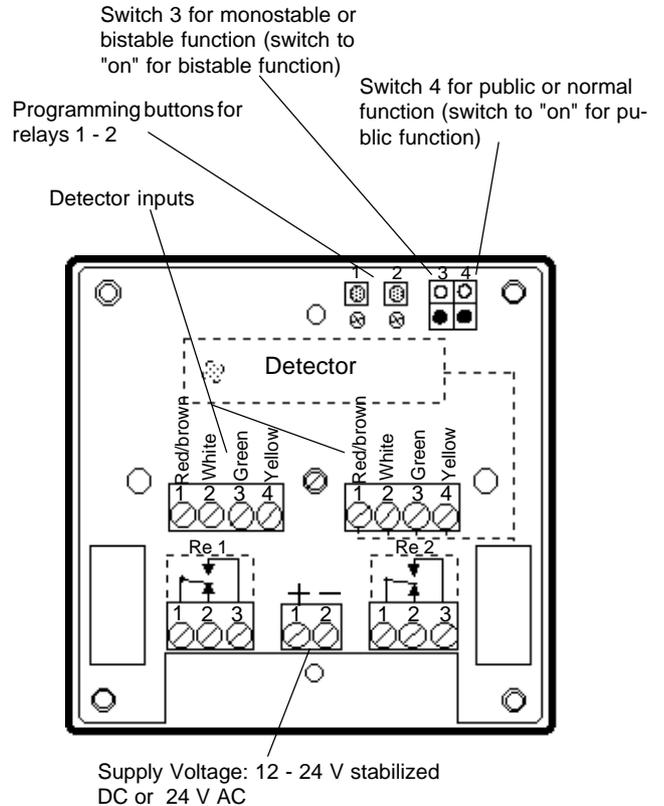
Use switch 3 to get a monostable or a bistable relay function. Switch to "ON" for a bistable function and to "OFF" for a monostable function.

Public Function

Public function means that the receiver accepts all transmitted channels within the GewaLink system, 4096 codes or Infra-code irrespective of which channel or code is transmitted. A channel or a code (any channel or code can be used) must however be programmed before the public function can be used. This function can be useful in situations when it isn't necessary for the user to keep track of which channel is used for a certain function. NOTE! This function cannot be used if there are more receivers within a visible area because all the receivers will be affected at the same time. Choose public/normal function by means of switch 4. Switch to "ON" for public function and to "OFF" for normal function.

Programming

Decide whether the relay is to have a bistable or a monostable function by using switch 3 on the printed circuit board. Then decide whether the relay is to have normal or public function by using switch 4. Press the transmitter channel which you want to be programmed at the same time as you press programming button 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 2 and another transmitter channel and so on. If you are not satisfied with the selected channel repeat the process. **Warning! The actual relay is activated during programming.** GewaLink channels 0-127



(channel 62 has no function), 4096 codes and Infra-code can be programmed. NOTE! The range is reduced if the detector eye is covered or in any other way obscured by curtains or furniture for example.

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:	12 - 24 V stabilized DC (-5% +20%) or 24 V AC (+/- 20%)
Max Current Consumption:	70 mA
Max Load each Relay:	4 A resistive load at 24 V AC/DC 3 A inductive load at 24 V AC 2 A inductive load at 24 V DC
Total Max Load all Relays:	100 VA (UL, CSA)
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 environment:	Indoor: IR-2ML, IR-2ML0D, IR-2MLNO Outdoor (IP-55): IR-2MLU, IR-2MLUOD
Product life:	10 years