

# GL-1M — Instructions for Use (English)

## Description

GL-1M is a programmable IR receiver with an alternating relay contact. The receiver can be programmed with all GewaLink channels and one coded channel (4096). The receiver's relay can be programmed to function in a bistable or a monostable manner. The IR receiver has an internal IR detector that can be disconnected.

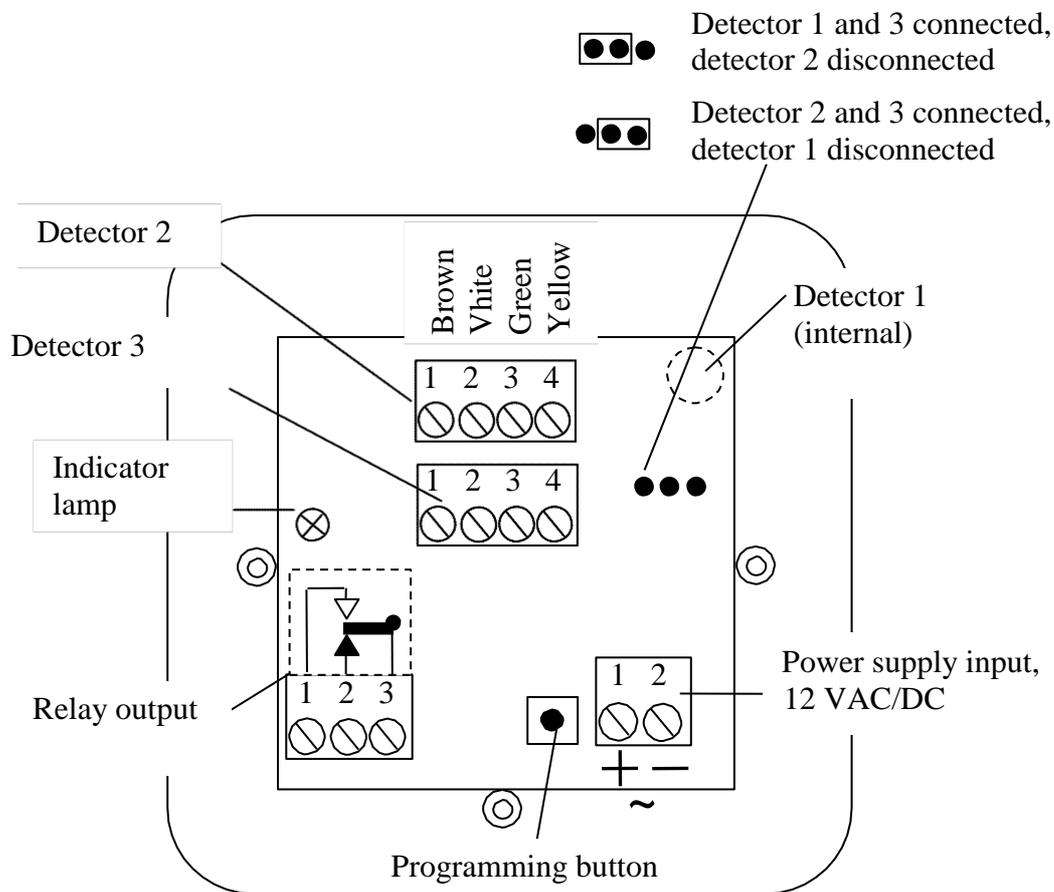
The following versions of the GL-1M are available:

4194	GL-1M	receiver for indoor use
419402	GL-1MU	receiver for outdoor use
419404	GL-1M OEM	receiver for mounting into an equipment unit or for other mounting

## Connections

All connections are attach by jacks, so that the connectors can be removed before connecting wires.

The figure shows how wires are to be connected.



## **External Detector**

The detector is the actual eye that receives the IR signal. A maximum of two detectors can be used at the same time. There is an internal detector on the circuit board of the receiver. If two external detectors are connected, the internal detector must be disconnected. This is achieved using a jumper as shown in the diagram.

The colours of the wires are to be connected as shown in the figure when connecting a detector. Make sure that the wires are correctly connected when connecting a detector.

Note: the range will be reduced if the detector eye is covered or hidden in some way, for example by curtains or by furniture.

## **Relay Connection**

The receiver has an alternating relay contact. The maximum relay loading is specified in the Technical Specifications. Inductive loads, such as motors and relays, should be connected through a disturbance filter.

## **Power Supply**

The receiver is powered with 12 - 24 V AC/DC (-10% - +20%).

## ***Programming***

The IR receiver can be programmed with GewaLink channels 0-127 (channel 62 has no function) or one coded channel (4096). The selection is also made during programming whether the IR receiver is to function in a monostable or a bistable manner.

Monostable functioning = The relay is activated as long as the key on the IR transmitter is held down.

Bistable functioning = The relay is activated when the key on the IR transmitter is held down and releases. The second time the key is held down and released, the relay will be deactivated.

Program the receiver as follows:

Press the selected button on the IR transmitter and press at the same time the programming button on the IR receiver. If the programming button is held down for approximately 1 second, the unit is programmed with a monostable function. If it is held down for approximately 2 seconds, the unit is programmed with a bistable function.

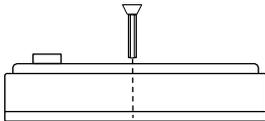
The receiver confirms the programming by activating the relay and causing the

indicator lamp to flash. Simply repeat the procedure if the selected channel or function is not satisfactory.

**Warning!** The relevant relay is activated during the programming. This may cause an inadvertent activation of some equipment.

### ***Attaching the Lid***

It is possible to fix the lid of the GL-1M model with the included screws.



### ***Cleaning***

Dip a rag into water with a little washing-up liquid in it and wring it out well. This can then be used to clean the outer casing of the receiver.

### ***Technical Specifications***

Supply voltage:	12-24 VAC/DC (-10% - +20%)
Maximum current drawn when idle:	12 mA (2 detectors, relay inactive)
Maximum current drawn:	17 mA (2 detectors, relay active)
Maximum relay load:	3A, 24 V AC/DC resistive load
Maximum number of detectors:	2, including internal detector
Programming channels:	GewaLink channels 0-127 (channel 62 is without function) and one coded channel (4096).
Ambient temperature:	-20° - +35°C, (-4° - +95°F)
Surroundings:	Indoors: GL-1M, GL-1M OEM (IP-21) ” Outdoors: GL-1MU (IP-55)
Dimensions:	GL-1M: 96 x 96 x 36 mm ” GL-1M OEM 80 x 80 x 25 mm ” (fits into equipment units with 60 mm c/c) GL-1MU 82 x 95 x 57 mm



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