

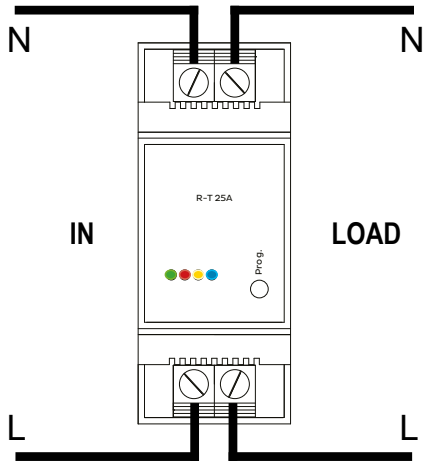
**Installing the relay** (may only be carried out by authorised personnel)

1. Connect and fit the relay.
2. The antenna must extend 9 cm from the cabinet for optimum signal strength.  
**NB: if it extends further, the signal will be worse.**  
 It is OK to thread the antenna through a plastic pipe with other cables.

Figure 2



Figure 3



**Troubleshooting may only be carried out by an authorised installer.**

**CTM  
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1021 Art. No.: 14120

**Technical data**

<b>Voltage:</b> 230 VAC (+/- 10%)	<b>Max. cont. load:</b> 25 A
<b>Peak:</b> 20 ms/200 µs 165 A/800 A	<b>Life:</b> 20,000 connections
<b>RF:</b> 868.100 MHz +5 dBm	<b>RF range:</b> Up to 30 metres
<b>El. temp. protection:</b> 75°C	<b>Dimensions:</b> 2 modules

CTM Lyng AS is Norway's leading manufacturer and supplier of security products for the home, assistive technology, energy efficiency, and light and heating control for all building types under the mKomfy®, mTouch®, Microsafe® and Control® brands. We distribute our products through electrical wholesalers. We offer everything from product development to production and distribution. Our production facility in Vanvikan is equipped with some of the most advanced machinery in Europe.

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**Thank you for choosing a product from CTM Lyng AS**

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**Installation and user instructions**

**MICROSAFE®**

**Panel relay for wireless control**



Part No. 4150122    Relay R-T 25 A Radio

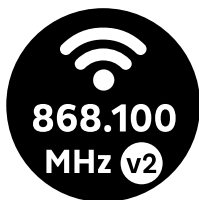
**SAVE THIS GUIDE**

A relay for panel installation, for example to control a water heater, lighting and other circuits you want to switch on/off.

Supplied with an antenna.  
Controlled wirelessly via 868.100 MHz.

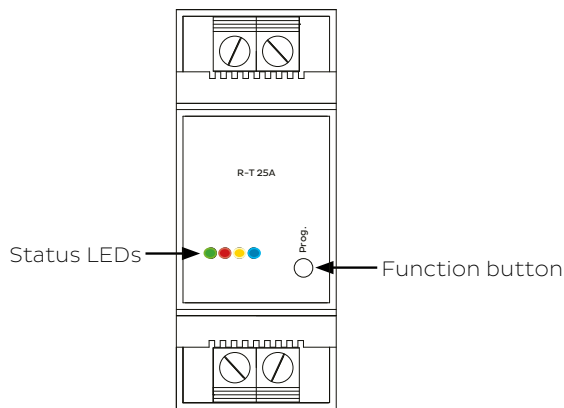
Compatible with newer 'R'/'Radio' products, e.g.:

- Mswitch Mic
- Mswitch Cooker Guard Sensor
- Mswitch On/Off
- Mswitch Timer
- Aqua Xpress Moisture Sensor
- Aqua Xpress Motion Sensor
- Mswitch Magnetic Switch
- mTouch Economy Switch
- mTouch HUB



Look for products labelled 'v2'

Figure 1



The LEDs on the relay display its status.

LED COLOUR	LIGHT/FLASHING	STATUS
Green	lights up	when relay is ON
Blue	flashes	when data is received from paired devices
Blue + Green	flash alternately	1 minute after emergency mode is activated, and continue to flash while the product is in emergency mode (12 hours)
Red	flashes	if relay overheats – relay is turned OFF
Red	flashes + beeping	if there is a fault, for example incorrect pairing sequence
Yellow	flashes	in pairing mode

Hold the function button on the relay for the time shown for the desired function.

HOLD TIME	RELEASE BUTTON WHEN...	FUNCTION
40 ms - 1s	(short press)	Pairing
3 s - 5 s	Yellow + Red light up	Pairing signal to HUB
5 s - 8 s	Yellow lights up, Red has gone out	Number of devices paired. When the button is released, this is shown by the number of yellow flashes
15 s - 20 s	Red flashes	Reset and deletion of paired devices. Relay is turned off if it was on
20 s +	All LEDs go out	Cancel/no setting changed

**Pairing option 1**

1. Press and release the function button on the relay.
  - Yellow LED flashes.
  - The relay is now in pairing mode for 60 seconds.
2. Operate the unit you want to pair with. See separate user guide.

**Pairing option 2**

NB. If several relays are connected to the same circuit, there may be a conflict with the desired function. In this case, use alternative 1.

1. Disconnect the power to the relay by removing the fuse circuit and putting it back again.
  - Yellow LED starts flashing.
  - The relay is now in pairing mode for 60 seconds.
2. Operate the unit you want to pair with. See separate user guide.
  - Disconnect the power to the relay again by removing the fuse circuit and putting it back again. NB: This must be done within 1 minute of pairing.

**Pairing with mTouch HUB**

1. Hold the control button on the relay until yellow and red LEDs light up (approximately 3 to 5 seconds).
2. The pairing signal from the relay will be sent 5 times.

**EMERGENCY MODE**

In the event of problems that cannot be resolved, you can activate emergency mode, which turns on the relay for 12 hours (can be repeated for a further 12 hours).

To activate emergency mode:  
Remove the fuse for the relay and hold the button on the relay in the fuse cabinet while reinserting the fuse. NB. The relay will beep once every 30 seconds for the first 5 minutes after activating emergency mode.