SIEMENS

GAMMA instabus

DIN rail housing

M 590/01

The device is used for installation of modular RL devices on a DIN rail.

- 1 slot for an RL room automation module
- Separate terminal compartment for bus line and function line
- Enclosed KNX bus terminal on housing for connection to RL device
- Plastic housing harmonized for rail-mounted devices, N - dimension

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Smart Infrastructure
Building Products

Characteristics

RL DIN rail housing can be used to mount all modular RL devices on a DIN rail. This enables central installation in a switching cabinet, electrical distribution board, installation small distribution board, system distribution board etc.

On the other hand, the modular RL devices can be installed decentrally in the room by means of automation module box AP 118 or room automation box AP 641. The RL DIN rail housing offers one slot for these modules:

- 5WG1125-4AB23 decentralized power supply RL 125/23 [80 mA]
- 5WG1260-4AB23 binary input RL 260/23 with 4 input, AC/DC 12 ... 230 V
- 5WG1512-4AB23 switching actuator RL 512/23, 1 x 16 A
- 5WG1513-4DB23 binary output 3-fold, RL 513/23, 3 x 6 A
- 5WG1521-4AB23 blind actuator 2-fold, RL 521/23, 2 x 6 A
- 5WG1526-4DB23 switching/dimming actuator, 2 x AC 230V, 6 A, 1...10V
- 5WG1605-4DB23 thermal drive actuator, RL 605/23, 2 x AC 24/230 V
- 5WG1524-4DB23 solar protection actuator, RL 524/23, 2 x DC 24 V, 6 A

Functions

The RL DIN rail housing consists of two parts:

the lower housing shell accommodates the RL device and, with its spring clamp on the back, offers the possibility of mounting the housing firmly on the DIN rail. The upper housing shell is placed on the lower housing shell and pushed on until the two upper snap-in hooks engage audibly.

The housing encloses the RL device completely. The upper housing case provides an opening in the upper area for passing through the load-side connection cables. Conductors for mains voltage and loads are connected to the terminals of the plugged RL modules. In the lower right part of the housing, there is a slot for the KNX bus terminal. In addition, the side of the housing contains two narrow slots for the passage of the KNX bus connection lines +/-. From the front, the housing with a viewing panel offers the possibility to read the device label of the RL unit used.

Technical design

Position and function of the display elements and connections

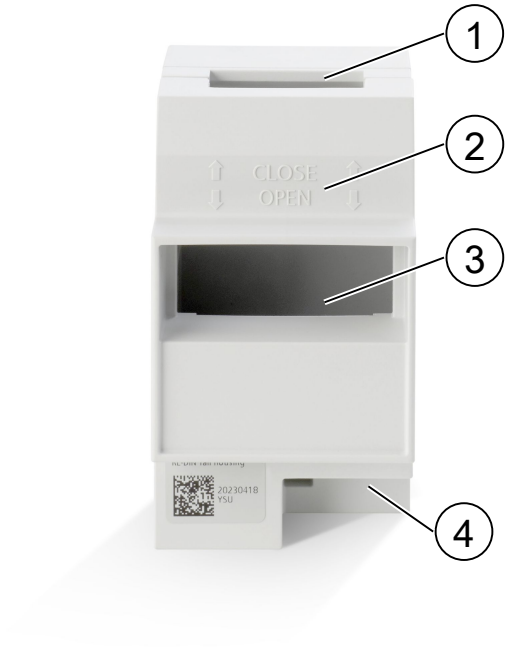


Fig. 1: RL DIN rail housing M590/01

Pos.	Connection, operating or display element	Function
1	Cable entry	Opening in the upper area for passing through the load-side connection cables.
2	Label	For openening/closing the upper housing shell
3	Viewing pane	Reading the device label
4	KNX connection	Slot for the KNX bus terminal

Type overview

Type	Designation	Item number
M 590/01 	RL DIN rail housing	5WG1590-8AB01

Product documentation and support

Product documentation

Documents related the product, such as operating and installation instructions, application program description, product database, additional software and CE declarations can be downloaded from the following website:

http://www.siemens.com/gamma-td

Frequently asked questions

For frequently asked questions about the product and their solutions, see:

https://support.industry.siemens.com/cs/products?dtp=Faq&mfn=ps&lc=en-WW

Support

Contact details for additional questions relating to the product:

Tel.: +49 89 9221-8000

http://www.siemens.com/supportrequest

Notes

Security

⚠ CAUTION	
⚠	**National safety regulations** Failure to comply with national safety regulations may result in personal injury and property damage. ● Observe national provisions and comply with the appropriate safety regulations.

Mounting

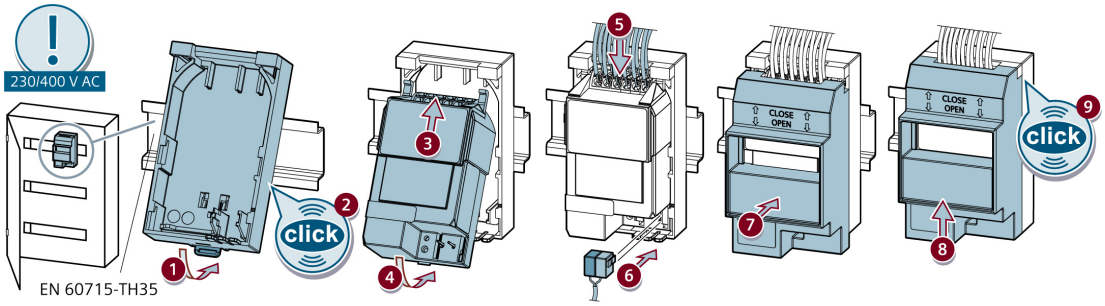


Fig. 2: RL DIN rail housing M 590/01

Process

- The lower housing shell is placed on the DIN rail with the upper retaining lugs on the rear side [1] and swivelled downwards until the spring slide audibly engages [2] on the DIN rail.
- The respective RL device is hooked into the recesses of the lower housing shell at an angle with its two hooks at the top [3] and swiveled down until it engages [4].
- The connection cables for the power supply and the load connection are fed through the upper opening of the lower housing shell and connected to the relevant plug-in terminals of the RL device [5].
- The KNX bus line is plugged into the bus terminal. The bus terminal is plugged onto the bus pins of the RL device, the wires of the bus cable are pushed through the housing slots of the cable entry [6].
- The upper housing shell is placed on the lower housing shell slightly offset downwards [7] and then pushed upwards [8] until the two snap-in hooks audibly engage in the lower housing shell [9].

Mounting

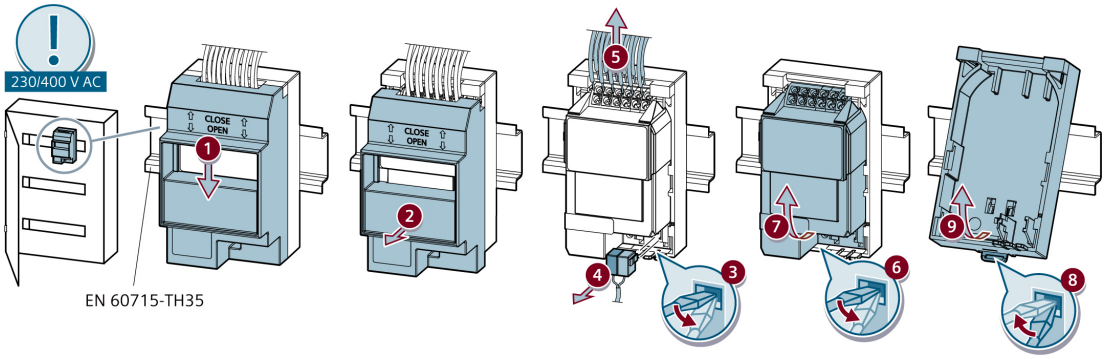
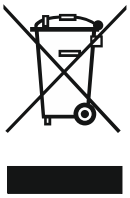


Fig. 3: RL DIN rail housing M590/01

Process

- The upper housing shell is pushed down [1] and then pulled off to the front [2].
- Using a screwdriver [3], the bus terminal is pushed off the bus pins of the RL device and pulled off [4].
- The connection cables for the power supply and the load connection are disconnected using a screw driver (see description of the RL device) [5].
- The respective RL device is levered out to the front using a screwdriver [6] on the lower housing shell and unhooked [7].
- To remove the lower housing shell, use a screwdriver [8] to lever down the spring slide and thus release the lower housing shell from the DIN rail. This can now be lifted off [9].

Disposal



According to the European Directive, the housing is considered old electrical and electronic equipment when disposed of and must not be disposed of as household waste.

- Dispose of the device using the proper channels.
- Observe current local laws.

If a housing is defective, contact the local sales office.

Technical data

Mechanical data	
Housing material	Plastic
Dimensions	See Dimension drawing [▷ 7]
Product weight	70 g
Fire load	2 MJ

Environmental conditions	
Ambient temperature in operation	-5 °C...+45 °C (23 °F...113 °F)
Storage temperature	-20 °C...+70 °C (-4 °F...158 °F)
Transport temperature	-25 °C...+70 °C (-13 °F...158 °F)
Relative humidity (non-condensing)	5 %...95 %
Environmental rating	EN 60721-3-3: Class 3k5

Protection settings	
Housing protection class (according to EN 60529)	IP 20
Test mark	EAC, UKCA, WEEE, China-RoHS
CE mark	Yes

Dimension drawing

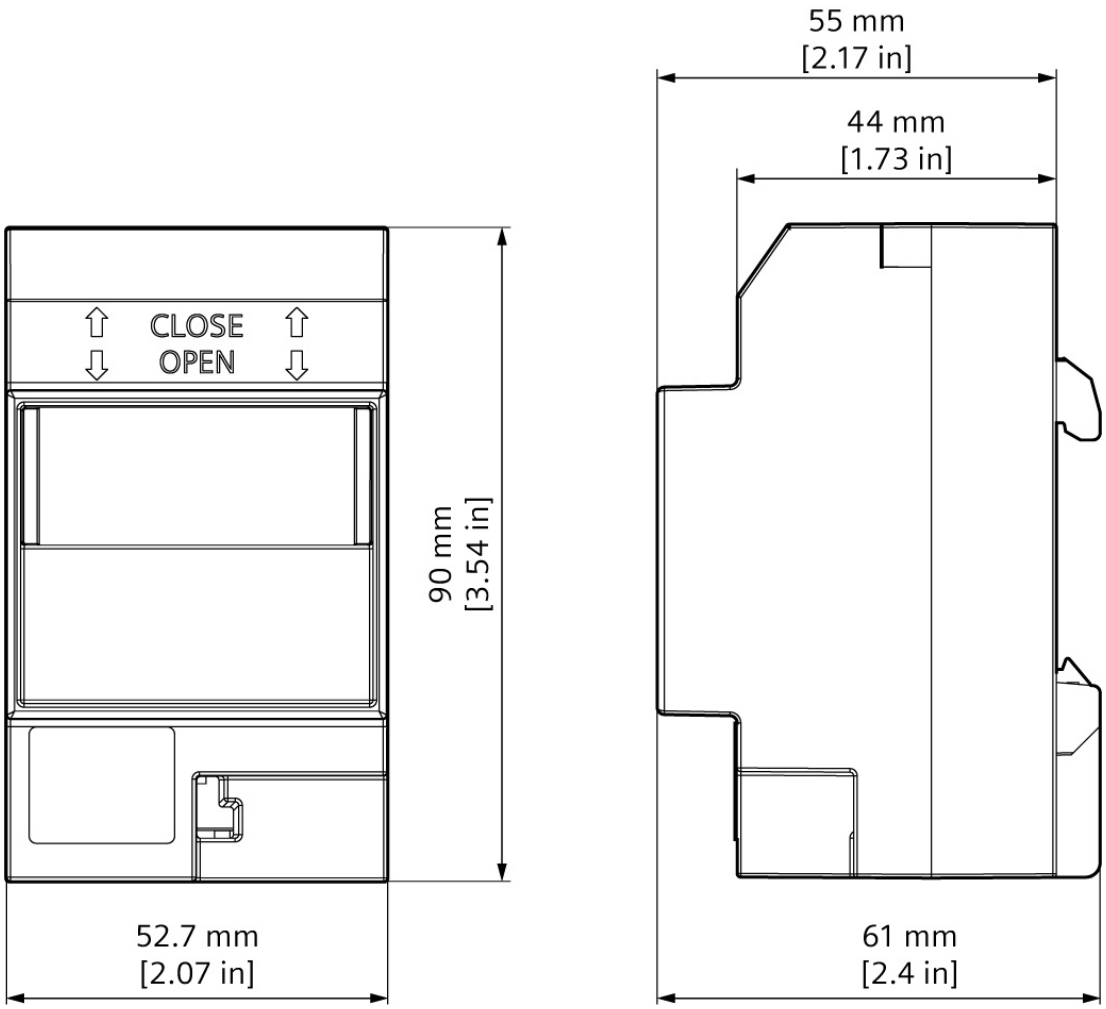


Fig. 4: RL DIN rail housing M 590/01

FCC Statement

⚠ WARNING	
	**Installation and usage of equipment not in accordance with instructions manual may result in:** Radiation of radio frequency energy Interference to radio communications ● Install and use equipment in accordance with installation instructions manual ● Read the following information

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications.

It has been tested and found to comply with the limits for a Class A computing device pursuant to Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation

FCC Caution: Changes or modifications not expressly approved by Siemens Switzerland Ltd. could void the user's authority to operate the equipment. United States representative https://new.siemens.com/us/en/products/buildingtechnologies/home.html

Industry Canada statement

This device complies with ISED's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

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