



## Line-M-4IO-R

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Line-M-4IO-R, Expansion modules

Code: M58E02.

- > Protocol: Modbus/RTU
- > Communications: Bus-Line
- > N° relays: 4
- > Digital inputs: 4
- > Mounting: DIN rail

### Description

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Module with 4 floating relay inputs and outputs.

The expansion modules of the Line range provide a simple way to extend the features of any version of line-EDS-Cloud, line-EDS-PS, or of the line-CVM-D32 network analyser.

They allow adding digital outputs and inputs, analogue inputs and outputs or any combination thereof, to the devices.

The modules are connected laterally and are detected automatically when the lateral connection is made, which greatly simplifies the installation and configuration of the modules.

### Application

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- Expansion of inputs/outputs from line-CVM-D32 or line-EDS network analysers.
- Management of up to 4 tariffs with activation of the different inputs to the module.
- Alarms can be programmed independently based on high/low values, hysteresis, timer on/off delays, normally open or closed rest state and interlocks.
- Track the status of components in the installation by using the status of the inputs to the module.



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### Specifications

#### DC power supply

|             |          |
|-------------|----------|
| Consumption | max. 4 W |
|-------------|----------|

#### Mechanical characteristics

|                                  |                               |
|----------------------------------|-------------------------------|
| Size (mm) width x height x depth | 52.5 x 118 x 70 (mm)          |
| Envelope                         | Self-extinguishing V0 plastic |
| Fastening                        | DIN rail (IEC 60715)          |
| Weight (kg)                      | 0,2                           |

#### Environmental characteristics

|  |                   |
|--|-------------------|
| Protection class                         | IP30, Front: IP40 |
| Relative humidity (without condensation) | 5 ... 95%         |
| Storage temperature                      | -20 ... +70 °C    |
| Working temperature                      | -10 ... +50 °C    |

#### Varistor characteristics

|                 |         |
|-----------------|---------|
| Maximum voltage | 275 V ~ |
|-----------------|---------|

#### Voltage measurement circuit

|                 |     |
|-----------------|-----|
| Input impedance | 3kΩ |
|-----------------|-----|

#### Standards

|  |  |
|--|--|
| Electrical safety, Maximum height (m)    | 2000   |
| Electrical safety, Installation category | CAT III 300 V                                      |
| Standards                                | UNE-EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4 |

#### User interface

|     |       |
|-----|-------|
| LED | 9 LED |
|-----|-------|

#### Digital inputs

|                         |             |
|-------------------------|-------------|
| Input/output insulation | 3,75 kV~    |
| Quantity                | 4           |
| Type                    | Optocoupler |
| Minimum signal width    | 10 ms       |

#### Digital relay outputs

|                 |   |
|-----------------|---|
| Quantity        | 4   |
| Type            | Class A, high frequency current filtering |
| Maximum current | 6 A ~                                     |



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|                                   |                            |
|-----------------------------------|----------------------------|
| Maximum open contact voltage      | 250 V ~                    |
| Electrical life (at maximum load) | 5x10 <sup>4</sup> cycles   |
| Mechanical life                   | 5 x 10 <sup>6</sup> Cycles |
| Maximum switching capacity        | 1500 VA                    |

### Protection

|         |          |
|---------|----------|
| Element | Varistor |
|---------|----------|

### Line-M-4IO-R

Expansion modules, Line series

| CODE                        | TYPE         | Protocol   | Analogue Inputs | Transistor output | N° relays | Digital inputs | Analog output |
|-----------------------------|--------------|------------|-----------------|-------------------|-----------|----------------|---------------|
| <b>Input/Output Modules</b> |              |            |                 |                   |           |                |               |
| M58E02.                     | Line-M-4IO-R | Modbus/RTU | -               | -                 | 4         | 4              | -             |

Relay I/O expansion modules, Line system

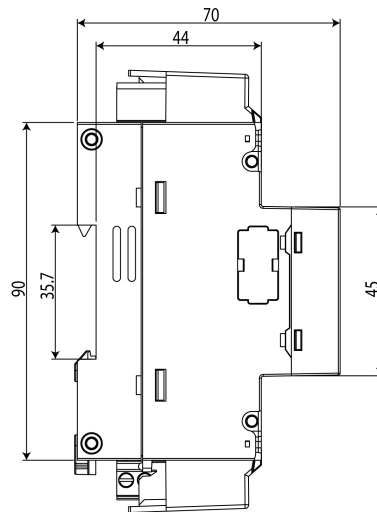
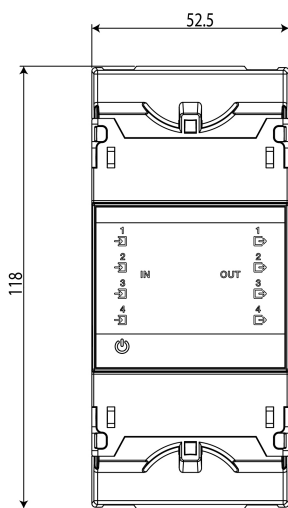


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## Dimensions



## Connections

