

Centralizing unit with 4 inputs

# LM 4I / 4O M

## Impulse CENTRALIZING UNIT

Centralizing unit with 4 optocoupled inputs and 4 relay-type outputs, with RS-485 communications



### Description

4-input impulse centralising equipment. Inputs are optoisolated to read impulses and it has a 32-bit memory to store the values metered.

- It has an RS-485 communications port that can be used with an RS-232 or Ethernet converter to read and write the unit's records remotely, using the **PowerStudio** management software. The RS-485 bus can be used to connect up to 32 units that use this type of communications
- The unit's outputs can be programmed to generate impulses or for remote control actions with the PowerStudio **software**

### Application

- Reading any Impulse-emitting device (up to 4 units). These parameters are useful to generate receipts or define a price/unit cost
- Alarm central: the unit's outputs can act on contacts, sound and/or luminous devices to carry out a protection or warning operation with an internal relay.

### Features

<b>Power supply circuit</b>	85...265 Vac / 120...374 Vdc ( $\pm 15\%$ )
Consumption	4.6 V·A
Frequency	47...63 Hz
<b>Digital inputs</b>	4 optoisolated inputs (voltage-free)
Maximum activation current	50 mA
<b>Outputs</b>	Relay
Nominal voltage	250 Vac
Electrical endurance	$3 \times 10^4$ operations (5A ac 250 Vac)
Nominal current	
With resistive load	250 Vac / 5 Aac
With inductive load (ac)	250 Vac / 2 Aac
With inductive load (dc)	24 Vdc / 5 Adc
<b>Ambient conditions</b>	
Operating temperature	-10 ... +50 °C
Humidity (non-condensing)	5 ... 95%
<b>Build features</b>	
Type of box	UL94-V0 self-extinguishing plastic
<b>Degree of protection</b>	
Fitted unit (frontal)	IP 20
Non-fitted unit (sides and rear cover)	IP 31
<b>Dimensions</b>	93 x 71 x 58 mm (4 modules)
<b>Weight</b>	170 g
<b>Safety</b>	
Category III - 300 Vac / 520 Vac <b>EN 61010</b>	
Double-insulated electric shock protection, Class III insulation voltage between the box enclosure and any terminal: 2500 V, 50 Hz, 1 min Insulation between the group of inputs / outputs and the power supply input: 1 G $\Omega$ Insulation between the group of inputs and the box enclosure: 1 G $\Omega$	
<b>Standards</b>	
IEC 60664, VDE 0110, UL 94, EN61010-1, EN55011, EN61000-4-13, EN61000-4-11, EN61000-6-4, EN61000-4-2, EN61000-6-2, EN61000-6-1, EN61000-6-3, EN61000-4-5	

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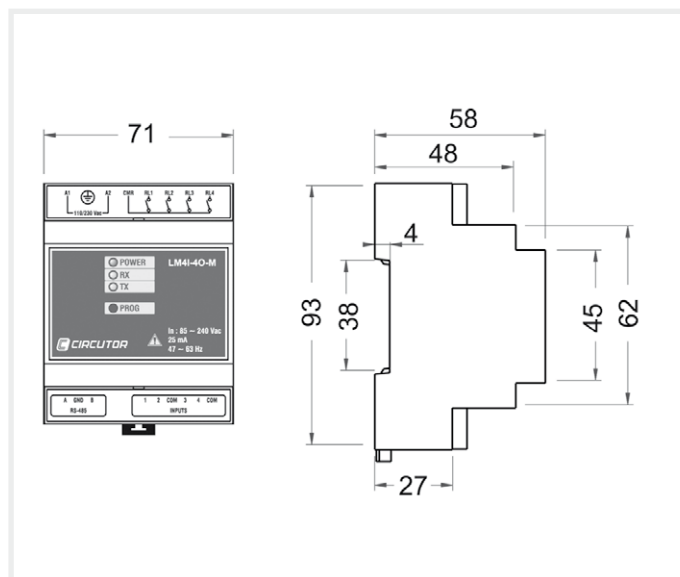
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References

Optoinsulated inputs	Relay outputs	Communications with the MODBUS (RTU) protocol	DIN Modules	Type	Code
4	4	RS-485	4	LM 4I / 4O M	M31563

Dimensions



Connections

