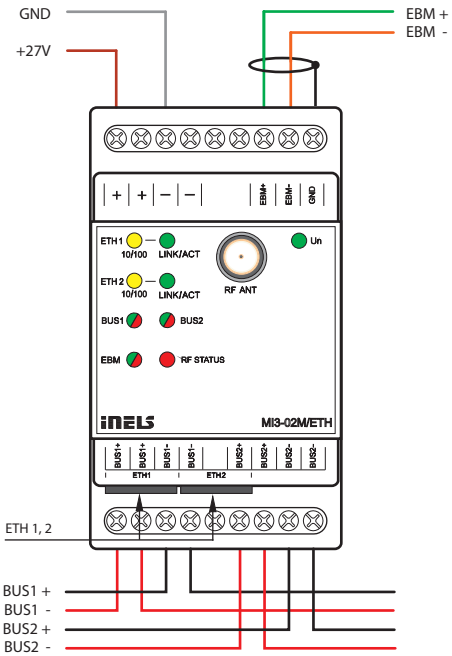
MI3-02M/ETH | External master BUS with Ethernet communication

EAN code
MI3-02M/ETH: 8595188134897

- The external master MI3-02M/ETH allows two additional BUS branches (i.e., 2x 32 peripheral units) to extend the number of connected iNELS3 peripheral units to the CU3-01M, CU3-02M or CU3-03M central unit.
- Part of the External Master MI3-02M/ETH is also a bus separator (BPS3), which supplies the two BUS connected to this master with 2x1A current.
- The unit can communicate via the EBM system bus with the CU3-01M, CU3-02M or CU3-03M (ETH) Ethernet interface.
- The advantage of using Ethernet communication is faster data transfer between masters and faster system response.
- ETH ports are used to connect up to 8 external MI3-02M/ETH master units, where one port is an input port, the other outputs and serves to interconnect units. It is possible to connect CU3-03M and up to 8 MI3-02M/ETH into a "circle" or it is possible to interconnect the EBM system bus with the CU3-01M, CU3-02M central unit and extend this system up to 8 external MI3-02M/ETH master units.
- The MI3-02M/ETH is powered from PS3-100/iNELS.
- The MI3-02M/ETH is equipped with an RF module for communication with selected units of iNELS RF Control.
- The status of each BUS (Run, Error) is signalled by the appropriate colour LED on the front panel of the unit.
- If this is the last unit on the EBM system bus, it is necessary to terminate the line with a resistor with a nominal resistor value of 120Ω. This element, which is designed for easy insertion into the terminals, is part of a package of central units and external masters and is inserted between the EBM + and EBM- terminals.
- MI3-02M/ETH in 3-MODULE version is designed for mounting into a switchboard, on DIN rail EN60715.

Technical parameters	MI3-02M/ETH
Indication LED	
Power indication:	green LED Un
Unit status indication BUS / EBM:	green LED BUS1, BUS2 / EBM
BUS / EBM bus fault indication:	red LED BUS1, BUS2 / EBM
RF communication indication:	red LED RF STATUS
Communication	
BUS with integrated BPS3	
Max. BUS output current:	2x 1A
Maximum number of units:	max. 2x 32 units
Maximum cable length:	max. 500 m (depends on power loss)
2x konektor ETH	Connection to CU3-03M or to another external MI3-02M / ETH master
Connectors:	RJ45 on the underside of the product
Communication speed:	100 Mbps
Ethernet status indication:	2x green - Communication Ethernet 2x yellow – Speed Ethernet 100 Mbps
Power supply	
Supply voltage / tolerance:	27 V DC, -20 / +10 %
Rated current without output load:	max. 75mA (at 27 V DC)
Operating conditions	
Operating temperature:	-20 .. +55 °C
Storage temperature:	-25 .. +70 °C
Humidity:	max. 80%
Protection degree:	IP20 device, IP40 mounting in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operating position:	any
Installation:	in a switchboard on DIN rail EN 60715
Design:	3-MODULE
Terminal:	max. 2.5 mm² / 1.5 mm² with sleeve
Dimensions and weight	
Dimensions:	90 x 52 x 65 mm
Weight:	200 g

Connection



iNELS RF Control interface for MI3-02M/EHT

Communication protocol:	RF Touch Compatible
Transmitting frequency:	866 MHz / 868 MHz / 916 MHz
Signal transmission methods:	bidirectionally addressed message
Output for RF antenna:	SMA connector*
RF antenna:	1 dB (part of package)
Free space range:	up to 100m

* Max Tightening Torque for antenna connector is 0.56 Nm.