

EAN code CU3-01M: 8595188132220 CU3-02M: 8595188132398

Weights:

LED IndicationFlashing - communication with BUS, ON - no communication Red LED ERR:Flashing - no project, ON - unit STOPOLED displaydisplays the current status and settingsType:color OLEDResolution:128x128 / 1:1 aspect ratioVisible area:26x26 mmControlling:accuracy: Is/day at 3 °CInputs:4x NO or NC to GND (1)Inputs:4x NO or NC to GND (1)Number of connected units (directly to the CU3-01M (02M)max. 64 (2x32)Expansion possibilitiesup to 576 unitsexternal BUS master:(CU3-01M (02M) and 8x MI3-02M)Maximum number of units:max. 32 units to one BUS lineMaximum cable length:max. 500 mNumber of connected units(Cu3-01M (02M) and 8x MI3-02M)Expansion possibilitiesup to 576 unitsexternal BUS master:(CU3-01M (02M) and 8x MI3-02M)Maximum number of units:max. 32 units to one BUS lineMaximum cable length:max. 500 mNumber of connected units:up to 8 (regards to increasing the cycle turns)Ethernetgreen - Ethernet communicationNumber of onnected entmates:up to 8 (regards to increasing in the cycleNumber of onnected entmates:27V DC, -20 / +10 %Rated current:192.04 exites, in the display and butons)Durp unities:-20 to +55 °CStorage temperature:-20 to +55 °CStorage temperature:-20 to +55 °CStorage temperature:-20 to +55 °CStorage temperature:-20 to +55 °CStorage	Technical paramete	rs CU3-01M, CU3-02M
Red LED ER:Flashing - no project, ON - unit STOPDLED displaydisplays the current status and settingsType:color OLEDResolution:128x128 / 1:1 aspect ratioVisible area:26x26 mmControlling:accuracy: 1s/day at 23 °CInputs:4x NO or NC to GND (-)Dutput:128 y up to prove to GND (-)Dutput:4x NO or NC to GND (-)Dutput:128 y up to to GND (-)Output:128 y up to to GND (-)Dutput:128 y up to to GND (-)Dutput:128 y up to to GND (-)Dutput:128 y up to to GND (-)Number of connected unitsmax. 64 (2x32)Expansion possibilitiesup to 576 unitsexternal BUS master:(CU3-01M (02M) and 8x MI3-02M)Communicationmax. 520 m (depends on power loss)System BUS EBM100 MbpsMaximum number of units:max. 500 mNumber of connected ext. maters:yue to 8 (regards to increasing the cycle turns)System BUS EBM100 MbpsIndication of the Ethernet:green - Ethernet communicationyellow - Ethernetyellow - Ethernet speel 100 MbpsIndication of the Ethernet:27 V DC, -20 / +10 %Supply voltage / tolerance:27 V DC, -20 / +10 %Rated current:110 mA (at 27 V DC, -20 / +10 %Rated current:120 d exicles, IP40 with cover in the switchboardOvervoltage category:ILOvervoltage category:ILOvervoltage category:ILOvervoltage category:IL <td>LED Indication</td> <td></td>	LED Indication	
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Type- Resolution:128x128 / 1:1 aspect ratioResolution:128x128 / 1:1 aspect ratioVisible area:26x26 mmControlling:accuracy: 1s/day at 23 °CInputs4x NO or NC to GND (-) 2x analogue inputs 0-30Outputs4x NO or NC to GND (-) 2x analogue inputs 0-30Output:relay output- NO/GNDNumber of connected unitsmax. 64 (2x32)(directly to the CU3-01M (02M):max. 64 (2x32)Expansion possibilitiesup to 576 unitsexternal BUS master:(CU3-01M (02M) and 8x MI3-02M)Maximum number of units:max. 520 units to one BUS lineMaximum cable length:max. 500 mMaximum cable length:up to 8 (regards to increasing the cycle turns)System BUS EBMgreen - Ethernet communicationReferentgreen - Ethernet communicationCommunication speed:192.168.1.1 (the IP address can be changed in the menu using the display and buttons)The default IP address:27 V DC, -20 / +10 %Rated current:192.168.1.1 (the IP address can be changed in the menu using the display and buttons)Porering conditions-25 to +70 °CHumidity:192.00 ex/55 °CStorage temperature:-25 to +70 °CHumidity:192.00 ex/51 °CDegree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:I.Indication of the Ethernet:anyStorage temperature:-25 to +70 °CHumidity:it o the switching board on the EN60715 DIN railDegre	OLED display	displays the current status and settings
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BUSImax. 32 units to one BUS line max. 550 m (depends on power loss)Maximum cable length:max. 550 m (depends on power loss)System BUS EBMmax. 500 mMaximum cable length:up to 8 (regards to increasing the cycle turns)EthernetConnector:Connector:RJ45 on the front panelCommunication speed:100 MbpsIndication of the Ethernet:green - Ethernet communication yellow - Ethernet speed 100 MbpsThe default IP address:192.168.1.1 (the IP address can be changed in the menu using the display and buttons)Power supply27V DC, -20 / +10 % Rated current:Supply voltage / tolerance:27V DC, -20 / +10 % 110 mA (at 27V DC)Operating conditions-20 to +55 °C -25 to +70 °CStorage temperature:-20 to +55 °C -25 to +70 °CHumidity:max. 80%Degree of protection:IIP20 devices, IP40 with cover in the switchboard any installation:Degree of pollution:2Design:6-MODULE max. 25 mm²Terminal:max. 25 mm²	external BUS master:	(CU3-01M (02M) and 8x MI3-02M)
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Number of connected ext. masters:up to 8 (regards to increasing the cycle turns)Ethernet	System BUS EBM	
Ethernet Image: Connector: Connector: RI45 on the front panel Communication speed: 100 Mbps Indication of the Ethernet: green - Ethernet communication yellow - Ethernet speed 100 Mbps yellow - Ethernet speed 100 Mbps The default IP address: 192.168.1.1 (the IP address can be changed in the menu using the display and buttons) Power supply 192.168.1.1 (the IP address can be changed in the menu using the display and buttons) Power supply 27 V DC, -20 / +10 % Rated current: 110 mA (at 27V DC) Operating conditions -20 to +55 °C Working temperature: -20 to +55 °C Storage temperature: -20 to +55 °C Storage temperature: -25 to +70 °C Humidity: max.80% Degree of protection: IP20 devices, IP40 with cover in the switchboard Overvoltage category: II. Degree of pollution: 2 Operating position: any installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max.2.5 mm²	Maximum cable length:	max. 500 m
Connector:RJ45 on the front panelCommunication speed:100 MbpsIndication of the Ethernet:green - Ethernet communicationyellow - Ethernet communicationyellow - Ethernet speed 100 MbpsThe default IP address:192.168.1.1 (the IP address can be changed in the menu using the display and buttons)Power supplySupply voltage / tolerance:27 V DC, -20 / +10 %Rated current:2110 mA (at 27V DC)Operating conditions-20 to +55 °CWorking temperature:-20 to +55 °CStorage temperature:1120 devices, IP40 with cover in the switchboardDegree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max.2.5 mm²	Number of connected ext. masters:	up to 8 (regards to increasing the cycle turns)
CommunicationIndicationCommunication100 MbpsIndication of the Ethernet:green - Ethernet communicationyellow - Ethernet speed 100 MbpsThe default IP address:192.168.1.1 (the IP address can be changed in the menu using the display and buttons)Power supplySupply voltage / tolerance:27 V DC, -20 / +10 %Rated current:110 mA (at 27V DC)Operating conditions-20 to +55 °CWorking temperature:-20 to +55 °CStorage temperature:-20 to -20 r +0 °CHumidity:max.80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max.2.5 mm²	Ethernet	
Indication of the Ethernet: green - Ethernet communication Indication of the Ethernet: green - Ethernet speed 100 Mbps The default IP address: 192.168.1.1 (the IP address can be changed in the menu using the display and buttons) Power supply 192.168.1.1 (the IP address can be changed in the menu using the display and buttons) Power supply 27 V DC, -20 / +10 % Rated current: 110 mA (at 27V DC) Operating conditions -20 to +55 °C Working temperature: -20 to +55 °C Storage temperature: -20 to +55 °C Humidity: max.80% Degree of protection: IP20 devices, IP40 with cover in the switchboard Overvoltage category: II. Degree of pollution: 2 Operating position: any installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max.2.5 mm ²	Connector:	RJ45 on the front panel
Indication of the Link internetPerform and the Link internetThe default IP address:192.168.1.1 (the IP address can be changed in the menu using the display and buttons)Power supplySupply voltage / tolerance:27 V DC, -20 / +10 %Rated current:110 mA (at 27V DC)Operating conditions-20 to +55 °CWorking temperature:-20 to +55 °CStorage temperature:-20 to +55 °CHumidity:max. 80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max. 2.5 mm²	Communication speed:	100 Mbps
The default IP address:192.168.1.1 (the IP address can be changed in the menu using the display and buttons)Power supplySupply voltage / tolerance:27 V DC, -20 / +10 %Rated current:0Operating conditions110 mA (at 27V DC)Working temperature:-20 to +55 °CStorage temperature:-20 to -55 °CHumidity:max. 80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max.2.5 mm²	Indication of the Ethernet:	green - Ethernet communication
Power supplySupply voltage / tolerance:27 V DC, -20 / +10 %Rated current:27 V DC, -20 / +10 %Rated current:110 mA (at 27V DC)Operating conditions-20 to +55 °CWorking temperature:-20 to +55 °CStorage temperature:-25 to +70 °CHumidity:max. 80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max. 2.5 mm²		yellow - Ethernet speed 100 Mbps
Power supplySupply voltage / tolerance:27 V DC, -20 / +10 %Rated current:110 mA (at 27V DC)Operating conditions-20 to +55 °CWorking temperature:-20 to +55 °CStorage temperature:-25 to +70 °CHumidity:max. 80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max. 2.5 mm²	The default IP address:	192.168.1.1 (the IP address can be changed in the
Supply voltage / tolerance:27 V DC, -20 / +10 %Rated current:110 mA (at 27V DC)Operating conditions		menu using the display and buttons)
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Working temperature:-20 to +55 °CStorage temperature:-25 to +70 °CHumidity:max. 80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max. 2.5 mm²	Rated current:	110 mA (at 27V DC)
Storage temperature:-25 to +70 °CHumidity:max. 80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max. 2.5 mm²	Operating conditions	·
Storage temperature:-25 to +70 °CHumidity:max.80%Degree of protection:IP20 devices, IP40 with cover in the switchboardOvervoltage category:II.Degree of pollution:2Operating position:anyinstallation:to the switching board on the EN60715 DIN railDesign:6-MODULETerminal:max.2.5 mm²	Working temperature:	-20 to +55 °C
Degree of protection: IP20 devices, IP40 with cover in the switchboard Overvoltage category: II. Degree of pollution: 2 Operating position: any installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max. 2.5 mm²		-25 to +70 °C
Overvoltage category: II. Degree of pollution: 2 Operating position: any installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max. 2.5 mm²	Humidity:	max. 80%
Degree of pollution: 2 Operating position: any installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max. 2.5 mm²	Degree of protection:	IP20 devices, IP40 with cover in the switchboard
Degree of pollution: 2 Operating position: any installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max. 2.5 mm² Dimensions and weight 0.105 for	Overvoltage category:	Ш.
Operating position: any installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max. 2.5 mm² Dimensions and weight 0.105 pf		2
installation: to the switching board on the EN60715 DIN rail Design: 6-MODULE Terminal: max. 2.5 mm ² Dimensions and weight		any
Design: 6-MODULE Terminal: max. 2.5 mm² Dimensions and weight 00.105.155		to the switching board on the EN60715 DIN rail
Terminal: max. 2.5 mm ² Dimensions and weight		6-MODULE
Dimensions and weight		max. 2.5 mm ²
	Dimensions and weight	
		90 x 105 x 65 mm

250 g



- CU3-01M and CU3-02M are central units' of the iNELS system and mediators, between user software interface and controllers, units and actuators connected to the BUS.
- It's possible to directly connect up to 2 lines of BUSes in to CU3-01M and CU3-02M, and on each BUS we can connect up to 32 iNELS3 units.
- The main difference between CU3-02M and CU3-01M is that CU3-02M is moreover equipped by RF module which enables communication with selected units from iNELS RF Control system.
- Central units CU-01M (02M) support also peripheral units from iNELS2 thanks to external master MI3-02M/iNELS2.
- User's project and retentive data are stored in a non-volatile internal memory hereby data are backed up without the supply voltage. Real time clock (RTC) backup for 10 days.
- Power supply controlling system network voltage and the status of the backup battery.
- Possibility of setting time synchronization via NTP server.
- The RJ45 Ethernet port's connector is located on the front panel of the unit, the transmission speed is 100 Mbps.
- For CU3-01M (02M) it is possible to use 4 potential-free inputs for connecting external controllers (buttons, switches, sensors, detectors, etc.) and 2 analog inputs 0 30V.
- CU3-01M (02M) comes with OLED display that shows the current status and enables settings (network settings, date, time, service) of the central unit CU3-01M (02M).
- Movement in the menu CU3-01M (02M) using arrows on the front panel.
- CU3-01M (02M) in 6-MODULE are designed for mounting into a switchboard on the EN60715 DIN rail.

iNELS RF Control interface for CU3-02M

Communication quete cel	DE Tauch Compatible
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 100 m

* Max Tightening Torque for antenna connector is 0.56 Nm.

CU3-03M | Central unit



Technical paramete	rs CU3-03M
LED Indication	
Green LED RUN:	Indication of the operating state of the unit
Red LED ERR:	Unit error indication
TFT display	displays the current status and settings
Туре:	color TFT
Resolution:	240x240 / 1:1 aspect ratio
Visible area:	26x26 mm
Controlling:	using arrows
The internal real-time clock:	accuracy: 1s/day at 23 °C
Inputs	
Inputs:	8x DIN GS 12-230V AC / DC
	(over common COM terminal)
	4x DIN voltage or current
	(with adjustable switching in current mode)
	7x AIN / DIN voltage or current
	(with adjustable switching in current mode)
Communication	(
BUS	
Maximum number of units:	max. 32 units to one BUS line
Maximum cable length:	max. 550 m (depends on power loss)
3x Ethernet	
Connector:	RJ45 on the underside of the product
Communication speed:	100 Mbps
Indication of the Ethernet:	3x green - Ethernet communication
indication of the Ethernet.	3x yellow - Ethernet speed 100 Mbps
The default IP address	192.168.1.1 (the IP address can be changed in the
(EHT3):	menu using the display and buttons)
DALI master:	up to 64 master units, max. 64 slave units
Maximum number of units:	max. 64 mA (external source connection possible)
Internal power supply:	Bus power supply
Power supply	bus power suppry
Supply voltage / tolerance:	27 V DC, -20 / +10 %
Rated current:	110 mA (at 27V DC)
Operating conditions	110 IIIA (at 27 V DC)
	-20 to +55 °C
Working temperature:	
Storage temperature:	-25 to +70 °C
Humidity:	max. 80%
Degree of protection:	IP20 devices, IP40 with cover in the switchboard
Overvoltage category:	П.
Degree of pollution:	2
Operating position:	any
installation:	to the switching board on the EN60715 DIN rail
Design:	6-MODULE
Terminal:	max. 2.5 mm ²
Dimensions and weight	
Dimensions:	90 x 105 x 65 mm
Weights:	257 g

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- CU3-03M is a new, enhanced version of CU3-01M and CU3-02M.
- The new HW equipment allows communication with the DALI bus to connect up to 64 electronic ballasts (the internal power supply of the CU3-03M is capable of supplying connected ballasts up to a nominal value of 64 mA).
- RF Communication Interface for Controlling Wireless Receivers iNELS RF Control (the current list of supported receivers is available in the iNELS Installation Guide).
- The CU3-03M is equipped with three Ethernet ports, one for Ethernet (100 Mbps) connections and two for CU3-03M controllers.
- The CU3-03M has a TFT display that shows the current status and allows some basic unit parameters such as network setup, date, time, or service.
- The movement in the CU3-03M menu is possible by using the directional buttons on the front panel.
- CU3-03M in 6-MODULE are designed for mounting into a switchboard on the EN60715 DIN rail.

iNELS RF Control interface for CU3-03M

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 100 m

DIN = digital input AOUT = analogue output AIN = analogue input GS = galvanically isolated

* Max Tightening Torque for antenna connector is 0.56 Nm.

Installation BUS:

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- Two-wired BUS with an arbitrary topology (not only to be as closed circle).
- With its own modulated communications on the DC voltage supply.
- One line of BUS allows you to connect up max. 32 units of iNELS3, or iNELS2 if you use external master MI3-02M/iNELS2.
- The current load of one line is max. 1A.
- maximum length of the BUS is approximately 550 m (depends on the voltage drop).
- Recommended cable:
- iNELS BUS Cable Twisted pair of copper wires with size of AWG20 wire (diameter of 0.812 mm, cross-section of 0.5190 mm²).

System BUS EBM:

- Used to connect the CU3-01M (02M) central unit with MI3-02M external masters, MI3-02M/iNELS2, GSM communicator GSM3-01M or converter DALI/DMX EMDC-64M.
- EBM has strictly linear topology and wires are connected to terminals EBM + and EBM-, wires can not be interchanged.
- Max. length of the line of BUS is 500 m.
- The EBM BUS has to be terminated at both ends.
- This part adapted to be inserted between terminals is included into central units packages and it is necessary to insert between terminals EBM+ and EBM-.
- Reccomended cabling:
- CAT5e UTP and higher, or FTP CAT5e and higher or STP CAT5e and higher.

- The configurations of units and the whole system are done via Ethernet, through configuration software - iNELS3 Designer & Manager (iDM3), which is designed for operating systems Windows 7, Windows 8 and Windows 10.
- The central unit features two communication protocols:
- ELKONET to communicate with iMM and Connection Server or directly with the application iHC. - ASCII - communication with third systems and integration with BMS
- (Building Management Systems), for example Niagara 4.

• Supported Software:

- Parameterization, configuration, control and visualization: iNELS3 Designer & Manager (iDM3).
- By means of iDM3, you can update firmware of central units and peripheral units connected by BUS.

Basic system connection with the central unit CU3-01M

