EAN code
CU3-04M: 8595188133067

Technical parameters CU3-04M

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LED Indication	
Green LED RUN:	unit operating status indication
Red LED ERR:	unit error indication
TFT display	displays the current status and settings
Type:	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
	(contra to the common terminal COM)
	4x DIN current or voltage
	(with adjustable switching of the current mode)
	7x AIN / DIN current or voltage
	(with adjustable switching of the current mode)
Outputs	
Output:	4x AOUT 0(1)-10V max. 10mA / channel
	1x RefOUT 5(10)V max. 100mA
Number of Units connected directly to CU3-04M:	max. 32
Possibility of expansion via external master:	up to 544 units, 8x Ethernet master
Output relays separated from all internal circuits:	reinforced Insulation *
Insulation between COM potentials:	reinforced Insulation *
Isolates. voltage open relay contact:	1 kV
SSR (Electronic Relay):	4x NO (OUT3 - OUT6)
Switched voltage:	20 - 240 V AC
Switched output:	480 VA
Peak current:	20 A, t ≤ 16 ms
Relay 6A:	12x NO (RE1 - RE6, RE11 - RE16),
	1x HW block changeover (OUT1 - OUT2)
Switched voltage:	250 V AC, 30 V DC
Switched output:	1500 VA/AC1, 180 W/DC
Minimum switching load:	500 mW (12 V / 10 mA)
Mechanical life:	$10x10^6$
Electrical life AC1:	$6x10^4$
Relay 10A:	4x NO (RE7 - RE10)
Switched voltage:	250 V AC, 24 V DC
Switched output:	2500 VA/AC1, 240 W/DC
Peak current:	30 A max. 4 s. at 10% duty cycle
Minimum switching current:	100 mA
Switching frequency without load:	1200 min^{-1}
Switching frequency with rated load:	6 min^{-1}
Mechanical life:	$3x 10^7$
Electrical life AC1:	$0.7x 10^5$

Communication	
BUS	
Maximum number of units:	max. 32 units
Maximum cable length:	max. 500 m (depends on power loss)
3x Ethernet	
Connectors:	RJ45 on the underside of the component
Communication speed:	100Mbps
Indication of the Ethernet:	3x green - Ethernet communication
	3x yellow - Ethernet speed 100 Mbps
The default IP address (ETH3):	192.168.1.1 (the IP address can be changed in the menu using the display and buttons)
DALI master:	max. 64 master units,
	max. 64 slaves ***
Internal power supply:	BUS power supply
Max. Internal power supply voltage:	max. 64 mA (option to connect an external power supply)
Power supply	
Supply voltage / tolerance:	27 V DC, -20 / +10 %
Rated current:	110 mA (at 27 V DC)
Operating conditions	
Working 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:	2x 6-MODULE
Terminal:	max. 2.5 mm^2
Dimensions and weight	
Dimensions:	90 x 210 x 65 mm (2x (90 x 105 x 65 mm))
Weights:	457 g

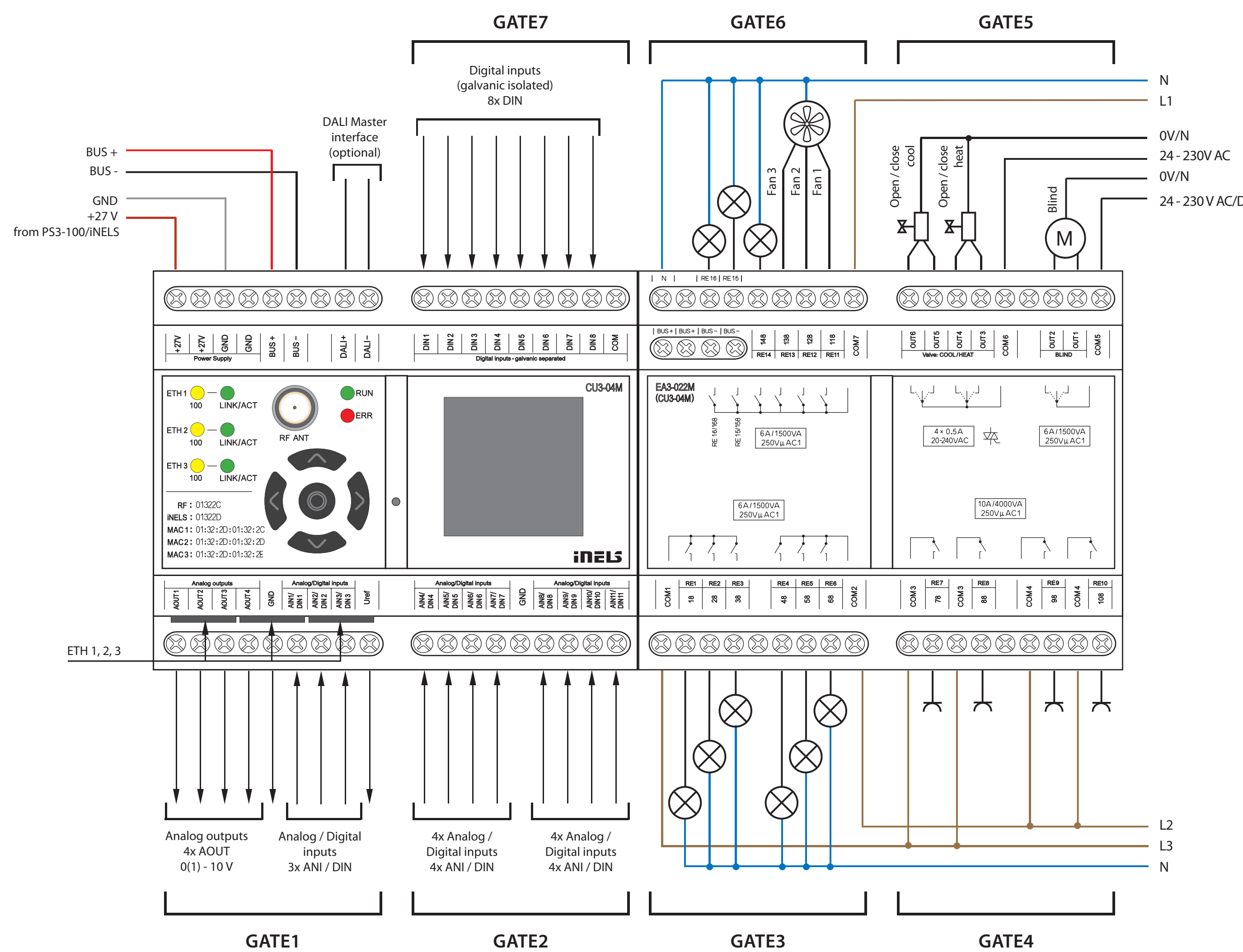
iNELS RF Control interface for CU3-04M

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

* (Cat. II surges by EN 60664-1)
** Max Tightening Torque for antenna connector is 0.56 Nm.
*** With an external DALI power supply

- CU3-04M control unit is designed to control hotel rooms.
- CU3-04M control unit is designed to enable management of all technology that may be in guest rooms, it is possible to provide maximum comfort while running with maximum efficiency throughout the building.
- CU3-04M is equipped with:
  - Digital input for connecting push-button controls, motion detectors or, for example magnetic detectors.
  - Analog inputs for connecting temperature sensors.
  - Digital outputs for the control of actuators, ventilator fan coil units, door locks, lighting, shading techniques, sockets and other equipment.
  - Analog output 0(1) -10V for controlling actuators and controlled continuously dimmable ballasts, controlled using voltage signals.
  - Installation BUS for connecting up to 32 BUS controllers and thermostats.
  - One DALI BUS for up to 64 electronic ballasts illumination (internal source CU3-04M is able to power the connected ballasts up to a nominal value of 64 mA).
  - RF communication interface for controlling iNELS RF Control wireless receivers (updated list of supported receiver is available in the iNELS installation manual).
- To create a logic of local control configuration software iNELS3 Designer & Manager (iDM3).
- CU3-04M control units can be connected in a complex control system (BMS) 4 Niagara, Niagara AX and Promotic.
- CU3-04M control unit is also able to communicate with a hotel system (PMS) Fidelio, so it is possible, for example, automatically during check-in to run in the room a welcoming scene, immediately signalling requirements for room cleaning etc.
- Thanks to its connection to BMS, it is possible amongst other things to:
  - Monitor the status of all system components from one location.
  - Interconnect iNELS with other protocols.
  - Create logical functions between the managing units.
  - Optimize the performance of HVAC systems based on current requirements from individual rooms.
- CU3-04M is also equipped with three Ethernet ports, one of which is used for connecting to Ethernet (100 Mbps) and two for CU3-04M wiring control units.
- CU3-04M has an TFT display that displays the current status and allows the setting of unit parameters such as network settings, date, time or the enabled service.
- Navigating the menus CU3-04M is possible using the directional buttons on the front panel.
- The execution of 2x 6-MODULE in the CU3-04M is designed for installation into switchboard on DIN rail EN60715.



Loadability of contacts

Minimum load		
Relay contact	mV	V/mA
$AgSnO_2$	1000	10/100

Minimum load		
Relay contact	mV	V/mA
AgNi	300	5/10

GCR3-11, GCH3-31, GMR3-61, SA3-02B, SA3-06M, SA3-012M, WMR3-21

Type of load	cos φ ≥ 0.95 AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	HAL.230V AC5b	AC6a	AC7b	AC12
Contact material $AgSnO_2$, contact 8A	250V / 8A	250V / 2.5A	250V / 1.5A	230V / 1.5A (345VA)	230V / 1.5A (345VA) till max output C=14uF	250W	250V / 4A	250V / 1A	250V / 1A
Type of load	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Contact material $AgSnO_2$, contact 8A	x	250V / 3A	250V / 3A	24V / 8A	24V / 3A	24V / 2A	24V / 8A	24V / 1A	x

CU3-04M (RE7 - RE-10), LBC3-02M, SA3-01B, SA3-02M, SA3-04M, SA3-022M (RE7 - RE-10), EA3-022M (RE7 - RE-10), JA3-018M (U/D1 - U/D9)

Type of load	cos φ ≥ 0.95 AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	HAL.230V AC5b	AC6a	AC7b	AC12
Contact material $AgSnO_2$, contact 16A	250V / 16A	250V / 5A	250V / 3A	230V / 3A (690VA)	230V / 3A (690VA) till max output C=14uF	1500W	x	250V / 3A	250V / 10A
Type of load	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Contact material $AgSnO_2$, contact 16A	250 / 6A	250V / 6A	250V / 6A	24V / 16A	24V / 6A	24V / 4A	24V / 16A	24V / 2A	24V / 2A

SA3-02B/Ni*, SA3-06M/Ni*, SA3-012M/Ni*

Type of load	cos φ ≥ 0.95 AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	HAL.230V AC5b	AC6a	AC7b	AC12
Contact material AgNi contact 8A	250V / 8A	250V / 2.5A	250V / 1.5A	230V / 1.5A (345VA)	x	400W	x	250V / 1.5A	250V / 5A
Type of load	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Contact material AgNi contact 8A	250 / 3A	250V / 3A	250V / 3A	24V / 8A	24V / 3A	24V / 2A	24V / 8A	24V / 1A	24V / 1A

SA3-01B/Ni*, SA3-06M/Ni*, SA3-04M/Ni*

Type of load	cos φ ≥ 0.95 AC1	AC2	AC3	AC5a uncompensated	AC5a compensated	HAL.230V AC5b	AC6a	AC7b	AC12
Contact material AgNi contact 16A	250V / 16A	250V / 5A	250V / 3A	230V / 3A (690VA)	x	800W	x	250V / 3A	250V / 10A
Type of load	AC13	AC14	AC15	DC1	DC3	DC5	DC12	DC13	DC14
Contact material AgNi contact 16A	250 / 6A	250V / 6A	250V / 6A	24V / 16A	24V / 6A	24V / 4A	24V / 16A	24V / 2A	24V / 2A

JA3-018M (U/D1 - U/D9), CU3-04M (RE1 - RE6, OUT1 - OUT2, RE11 - RE16), SA3-022M (RE1 - RE6, OUT1 - OUT2, RE11 - RE16, SHUTTER), EA3-022M (RE1 - RE6, OUT1 - OUT2, RE11 - RE16, SHUTTER), FA3-612M (FAN1 - FAN3, RE)

Type of load	cos φ ≥ 0.95 AC1	AC3	AC15	DC1
Contact material AgNi contact 6A	250V / 6A	230V / 0.8A	230V / 1.3A	30V / 3A 110V / 0.2A 220V / 0.12A

Demonstrated symbols are informative.
*Products with AgNi contact only up on request for extra charge.