

EAN code CU3-03M: 8595188132404

Weights:

Technical parameters	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 12-230 V 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. 500 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
	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:	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	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Rated current:	110 mA (at 27 V DC)
Operating conditions	
Working temperature:	-20 to +55 ℃
Storage temperature:	-25 to +70 ℃
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
Dimensions and weight	
Dimensions:	90 x 105 x 65 mm
W. C. L.	257

257 g

- 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

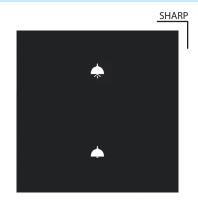
<sup>\*</sup> Max Tightening Torque for antenna connector is 0.56 Nm.



EAN code mini CU3-07M: 8595188176262

Technical parameters	CU3-07M
Indication LED STATUS	
Green LED RUN:	Flashing - communication with BUS, ON - no communication
Red LED ERR:	Flashing - no project, ON - unit STOP
Communication	
BUS	
Indication (LED BUS):	green - unit status indication
	red - BUS fault indication
Maximum number of units:	max. 32 units to one BUS line
Maximum cable length:	max. 500 m (depends on power loss)
BUS RS-485	
Indication (LED RS 485):	green - indication communication
	red - fault indication
Maximum cable length:	max. 500 m
Ethernet	
Connector:	RJ45
Communication speed:	100 Mbps
Indication of the Ethernet	green - Ethernet communication
(LED ETH):	yellow - Ethernet speed 100 Mbps
The default IP address:	192.168.1.1
Button RESET	
Restart:	short press
Reset (Factory Reset):	press the button to apply power,
•	release the button 10s after power is applied
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Rated current:	55 mA (at 27 V DC)
Operating conditions	
Operating temperature:	-20 to +55 ℃
Storage temperature:	-25 to +70 °C
Humidity:	max. 80%
Protection degree:	IP20 devices, IP40 with cover in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operating position:	any
Installation:	to the switching board on the EN60715 DIN rail
Design:	1-MODULE
Terminal:	max. 2.5 mm²
Dimensions and weight	
Dimensions:	94 x 17.6 x 64 mm
Weight:	72 g
	<u> </u>

- CU3-07M is a small central unit of 1M size for managing small projects such as a hotel room, small apartment or cottage.
- Configuration is performed by software iNELS designer and manager iDM3, or is possible to use superior control by ASCII communication with CLI3
- The unit can work as a stand-alone master for installation or as a slave for the superior CU3-0xM.
- The CU3-07M is equipped with one BUS branch to which up to 32 iNELS BUS units can be connected.
- For communication and configuration, the unit is equipped with an RJ45 connector with a 100Mbps Ethernet port.
- For ModBus communication, eg with Fancoils and Thermostats in the hotel room, the unit is equipped with RS-485 bus.
- CU3-07M in 1-MODULE version is designed for mounting into a switchboard, on DIN rail EN60715.







The picture of device is illustrative, the icons (symbols) are configurable by the customer.

EAN code GSB3-20/SB: 8595188156219 GSB3-40/SB: 8595188156233 GSB3-60/SB: 8595188156257

## Technical parameters GSR3-20/S GSR3-40/S GSR3-60/9

Technical parameters	GSB3-20/S	GSB3-40/S	GSB3-60/S
Inputs			
Temperature measuring:	YES, bι	uilt-in temperature	esensor
Scope and accuracy of temp.			
measurement:	0 to +5	5°C; 0.3°C from the	e range
Inputs:		2x AIN/DIN	
Resolution:		by setting 10-bit	
External temperature sensor:	YES, t	he connection bet	tween
	AIN	1/DIN1 and AIN2/[	DIN2
Type of external sensor:		TC/TZ	
Temperature measurement range:		-20°C to +120°C	
Temperature measurement accuracy:	0	.5°C from the rang	je
Illuminance sensor:		1 to 100 000 Lx	
Buttons			
Number of control buttons:	2	4	6
Type:		Capacitive	
Indication:	Colou	ured illuminated sy	/mbol
Outputs			
Acustic output:		piezo-changer	
Tactile output:		Vibration motor	
Communication			
Installation BUS:		BUS	
Power supply			
Supply voltage/tolerance:		27 V DC, -20/+10 %	ó
Dissipated power:		max. 0.5 W	
Rated current:	25-35 mA	25-43 mA	25-50 mA
	(a	t 27 V DC), from Bl	JS
Connection			
Terminals:		0.5 - 1 mm²	
Operating conditions			
Relative humidity:		max. 80 %	
Operating temperature:		-20 to +55 °C	
Storing temperature:		-30 to +70 °C	
Protection degree:		IP20	
Overvoltage category:		II.	
Pollution degree:		2	
Operation position:		any	
Installation:	on the wall, observing the conditions for correct		
	instal	lation of the thern	nostat
Dimensions and weight			
Dimensions:		94 x 94 x 36 mm	
Weight:		154 g	

- Glass touch controllers with symbols GSB3-20/S, GSB3-40/S and GSB3-60/S are part of a comprehensive range of glass iNELS control units and can be advantageously used in all projects for example as a part of guest room management system (GRMS).
- GSB3-20/S is equipped with two, GSB3-40/S with four and GSB3-60/S six touch buttons whose functions can easily modify by the software.
- Printing is possible to customize to the investor requirements.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- Glass touch panel is a design component of the iNELS system and is available in elegant black (GSB3-20/SB, GSB3-40/SB, GSB3-60/SB) and white (GSB3-20/SW, GSB3-40/SW, GSB3-60/SW) versions.
- All versions are in the size of the module (94x94 mm) from the line
  of luxury switches and sockets LOGUS<sup>90</sup> and are therefore fully in line
  with the design of frames for the sockets of this series, where you can
  just as for the controllers choose white and black glass frames.
- The glass touch controllers is equipped with an integrated temperature sensor. It is also equipped with two analog-to-digital inputs (AIN/DIN), which can be used to connect two potential-free contacts or one external temperature sensor TC/TZ (for example temperature measurement of the floor).
- The glass touch controllers are also equipped with a sensor of ambient light intensity. Based on information from the sensor it can switch backlight of symbols or perform various actions in the iDM3 software, for example also switch the lighting circuits in the room.
- Advantages over conventional switches/buttons are saving space, signalling the state of any system output, the ability to measure temperature as well as the ability to connect external buttons or detectors.
- Each button can control any actuator (appliance) in the system. Also, you can assign each button a different function or macro (set of functions). It is therefore possible to use one button to control several appliances at once.
- GSB3-20/S, GSB3-40/S, and GSB3-60/S are designed for mounting into an installation box.













Video

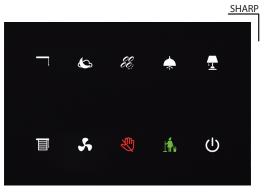
Intercom Audiozone



#### **Technical parameters** LARA Radio **Internet Radio** Supported data transfer formats: mp3, ogg, acc Control/Settings Front panel: touchscreen buttons Communication Ethernet: via PC setting up and communicating SW LARA Configurator **Button RESET:** restart product/ reset product to factory settings Interface ethernet Communications interface: 10/100 Mbps RJ45 Connector: Max. cable length UTP with power: 50 m Display color OLED Type: Resolution: 128 x 128 pixels Visible surface: 26 x 26 mm Power supply POE 24 V DC/1.25 A Supply: Min. input: 1.4 W Max. input: 26 W (peak at maximum playback performance) Amplifier Amplifier: stereophonic class D with digital output control Max. amplifier output: $2 \times 10 \text{ W/8 }\Omega$ Inputs/Outputs NO Microphone: Audio input: 3.5 stereo jack Audio output 1: terminals LINE OUT (used for external amplifier)\* terminals OUT L/OUT R Audio output 2: (speaker output from int. amplifier) Connection Terminal block: 0.5 - 1 mm<sup>2</sup> Other data 0 to + 55 °C Working temperature: Protection degree: IP20 II. Overvoltage category: Pollution degree: in an installation box Installation: Dimensions and weight Dimensions: - plastic: 85 x 85 x 46 mm - metal, glass, wood, granite: 94 x 94 x 46 mm Weight: 209 g (plastic frame)

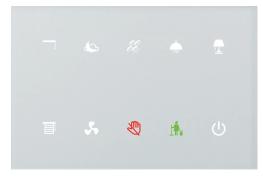
\* The cable from the LINE OUT terminals must be shielded, max. length should not exceed 5 m.

- · A music and Internet radio player all in the dimension of a switch and a luxurious LOGUS90 design.
- LARA Radio when connected to the Internet, it can play streaming radio stations and you can store up to 40 of them. But you can also select from thousands of radio stations from across the globe, which provide data for correct connection.
- · LARA Radio can play content from an external music source, which can be an smart phone or e.g. an MP3 player. These devices are connected to a 3.5mm stereo jack audio input, located underneath the front panel.
- LARA Radio can also play audio files from central data storage, onto which Logitech Media Server is installed. This LARA function can therefore be used within the complex iNELS system or as an entirely independent home automation device. When used within iNELS, control is a part of the complex application iHC. If using with NAS data storage, the application LARA NAS App is available.
- Touch control is performed on the device front panel (six capacity buttons available), or LARA Dio.
- The basic device settings (network connection, language, audio input) are performed via the display and a simple menu controlled from capacity buttons on the device front cover. Further settings (selection of stations, connection with the server, updating firmware, etc.) are configured via computer and the software LARA Configurator.
- LARA Radio is equipped with an OLED colored display with the size of 1.5". The display also shows basic information about playing music, which also serves the orientation in the menu settings, etc.
- LARA Radio has an integrated amplifier with 2x 10 W output, thus greatly facilitating device installation in places where such output suffices. LARA is used e.g. to provide premium sound to the kitchen, bathrooms, waiting rooms, offices, reception desks, entrance halls, operating rooms or wellness facilities.
- LARA is powered by PoE with maximum voltage level 27 V DC/ 1000 mA. So connecting and communicating with just one cable (UTP) is a major advantage.
- For LARA, an entire series of accessories is ready for connection (PoE adapters, PoE switches), speakers (in a frame, walls or ceilings) and installation (cables, box, etc.).
- Complies with standards IEEE 802.3u (100BASE-Tx).
- Automatic cable crossing detection of Ethernet cable MDIX.



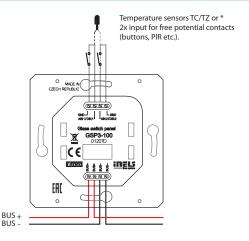
GSP3-100/B: 8595188156288 GSP3-100/W: 8595188156325

Technical parameters	GSP3-100
Inputs	
Temperature measuring:	YES, built-in temperature sensor
Scope and accuracy of temp.	
measurement:	0 to $+55$ °C; 0.3°C from the range
Inputs:	2x AIN/DIN
Resolution:	by setting 10-bit
External temperature sensor:	YES, the connection between
	AIN1/DIN1 and AIN2/DIN2
Type of external sensor:	TC/TZ
Temperature measurement range:	-20°C to +120°C
Temperature measurement accuracy:	0.5°C from the range
Buttons	
Number of control buttons:	10
Type:	Capacitive
Indication:	Coloured illuminated symbol
Outputs	
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 0.5 W
Rated current:	25-65 mA (at 27 V DC), from BUS
Connection	
Terminals:	0.5 - 1 mm <sup>2</sup>
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	on the wall, observing the conditions for correct
	installation of the thermostat
Dimensions and weight	
Dimensions:	142 x 94 x 36 mm
Weight:	208 g



The picture of device is illustrative, the icons (symbols) are configurable by the customer

- Glass Touch Panel GSP3-100 is part of a comprehensive iNELS series of units for the management of the hotel rooms (GRMS), but the unit can be used wherever it is required to control multiple devices from one location.
- GSP3-100 is equipped with ten touch buttons whose functions can easily be edited using the software.
- · The graphics of individual symbols are possible based on consultations with manufacturers to change and adapt to the requirements
- · Individual symbols can be any one of seven backlight colours red, green, blue, yellow, pink, turquoise and white.
- Glass touch panel is a design component of the INELS system and is available in elegant black (GSP3-100/B) and white (GSP3-100/W) versions.
- Compared with standard glass touchscreen controllers with symbols GSB3-20/SB, GSB3-20/SW, GSB3-40/SB, GSB3-40/SW, GSB3-60/SB and GSB3-60/SW the GSP3-100 is one and a half times the width.
- The touch panel is equipped with an integrated temperature sensor. It is also equipped with two analogue-to-digital inputs (AIN/DIN), which can be used to connect two potential free contacts or one external temperature sensor TC/TZ (e.g. For measuring the temperature of the floor).
- The touch panel is also equipped with an ambient light intensity sensor. Based on information from the sensor it can light up indicative illumination symbols or perform various actions with the iDM3 software, e.g. To also switch the lighting circuits in the room.
- · Advantages over conventional switches/buttons is saving space, signalling the state of any system output, the ability to measure temperature and an option to connect external pushbuttons or detectors.
- Each button can control any actuator (appliance) in the system. Also, you can assign a different function or macro (set of functions) to each button. It is therefore possible to use one button to control several
- GSP3-100 is designed for mounting into an installation box.



<sup>\*</sup> The choice is made in iDM3 for each unit separately.

# GRT3-50 | Glass room thermo-regulator





EAN code The p GRT3-50/B: 8595188156301 GRT3-50/W: 8595188156349

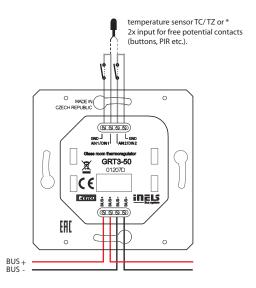
Weight:

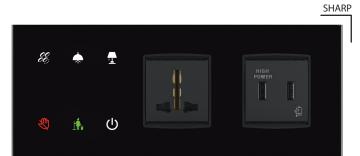
The picture of device is illustrative, the icons (symbols) are configurable by the customer 8595188156301

Technical parameters	GRT3-50
Inputs	
Temperature measuring:	YES, built-in temperature sensor
Scope and accuracy of	
temp. measurement:	0 to $+55$ °C; 0.3°C from the range
Humidity measurement:	YES
Humidity measurement range:	0 to 99% RH
Humidity measurement accurancy:	± 3 % Relative humidity
Inputs:	2x AIN/DIN
Resolution:	by setting 10-bit
External temperature sensor:	YES, the connection between
	AIN1/DIN1 and AIN2/DIN2
Type of external sensor:	TC/TZ
Temperature measurement range:	-20°C to +120°C
Temperature measurement accuracy:	0.5°C from the range
Buttons	
Number of control buttons:	5
Type:	Capacitive
Indication:	Coloured illuminated symbol
Display	
Display:	colored TFT, 20 x 25.5 mm
Resolution:	240 x 240 pixels
Outputs	
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 0.5 W
Rated current:	85 mA (at 27 V DC), from BUS
Connection	
Terminals:	0.5 - 1 mm <sup>2</sup>
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	on the wall, observing the conditions for correct
	installation of the thermostat
Dimensions and weight	
Dimensions:	94 x 94 x 36 mm

156 g

- Glass room thermo-regulator GRT3-50 is part of a comprehensive range of glass iNELS control units for guest room management system (GRMS) and serves to regulate the temperature in the room.
- GRT3-50 thermo-regulator has a display for displaying the current room temperature and desired temperature. To adjust the required temperature, it is possible to use the touch buttons with symbols "-" and "+".
- GRT3-50 is also suitable for controlling fan coils and fan speed can be easily adjusted by using the touch buttons with symbols.
- Thermo-regulator GRT3-50 also has a further two touch buttons whose function can be adjusted by software, for example fan coil on/ off, heating/cooling or comfort temperature for heating or cooling.
- Thermo-regulator is equipped with an integrated temperature sensor for ambient temperature measurement.
- The glass room thermo-regulator is a design component of the iNELS system and is available in elegant black (GRT3-50/B) and white (GRT3-50/W) version.
- Printing is possible to customize to the investor requirements.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- GRT3-50 are designed for mounting into an installation box.





GBP3-60/BR/2F



GBP3-60/WL/2F

The picture of device is illustrative, the icons (symbols) and wiring accessories are configurable by the customer.

## EAN code

Technical parameters	GBP3-60
Inputs	
Inputs:	2x AIN/DIN
Resolution:	by setting 10-bit
External temperature	YES, the connection between
sensor:	AIN1/DIN1 and AIN2/DIN2
Type of external sensor:	TC/TZ
Temperature measurement range:	-20°C to +120°C
Temperature measurement accuracy:	0.5°C from the range
Illuminance sensor:	1 to 100 000 Lx
Buttons	
Number of control buttons:	6
Type:	Capacitive
Indication:	Coloured illuminated symbol
Outputs	
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 0.5 W
Rated current:	25-50 mA (at 27 V DC), from BUS
Connection	
Terminals:	0.5 - 1 mm²
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	on the wall, observing the conditions for correct
	installation of the thermostat
Dimensions and weight	
Dimensions:	GBP3-60/1F: 165 x 94 x 36 mm,
	GBP3-60/2F: 236 x 94 x 36 mm

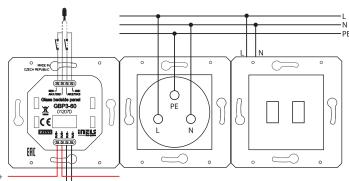
according to the selected module

Weight:

- Glass bedside panel GBP3-60 is part of a comprehensive range of iNELS control units for guest room management system (GRMS).
   Bedside panel is composed from three modules, of which one is module of touch buttons and two are modules to power for example mobile devices.
- The GBP3-60 is available in several designs, making it a very flexible and effective solution for a variety of projects. The following variants are available:
- left/right version provides the same ease of operation from both sides of the bed.
- 2-module (1F)/3-module (2F) design enables you to add a touch module with one or two power supply modules, network connection or multimedia.
- black/white elegant design suitable for almost any interior.
- GBP3-60 panel is equipped with six customizable touch buttons whose function can be software adapted to the requirements of the investor. Of course there is the possibility of using the "Master OFF", then you can select functions for switching and dimming of lighting, shading control, different scenarios etc.
- $\bullet$  Printing is possible to customize to the investor requirements.
- GBP3-60 can be equipped with a number of modules, for example.
- power AC sockets: French, British, Multi, and Shockproof
- other types of modules: USB, LAN, Media
- The GBP3-60 panel is equipped with an ambient light sensor.
- Individual symbols can be illuminated in one of three colours red, green and blue.
- GBP3-60/1F is designed for mounting into a double mounting box, GBP3-60/2F to a triple mounting box (distance between the centres of each of openings is 71 mm).

## Connection

GBP3-60/xR/2F-23x-20x



BUS-

<sup>\*</sup> Order codes are available in the iNELS price list.

## GCH3-31 | Glass card holder



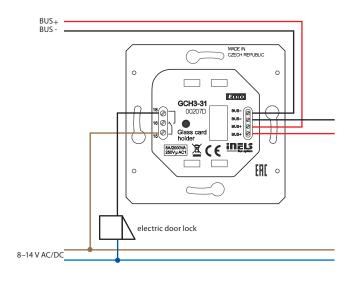


FAN code\*

The picture of device is illustrative, the icons (symbols) are configurable by the customer.

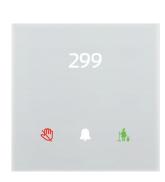
Technical parameters	GCH3-31
Input	
Illuminance sensor:	1 to 100 000 Lx
Buttons	
Number of control buttons:	3
Тур:	Capacitive
Indication:	Coloured illuminated symbol
RFID readers	
Supported frequencies:	13.56 MHz
Card Type:	MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1
Outputs	
Signalling:	Do Not Disturb, Make Up Room
Output:	1x changeover 8 A/AgSnO <sub>2</sub>
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Switching voltage:	230 V AC/30 V DC
Switching output:	2000 VA/AC1; 240 W/DC
Peak current:	20 A/<3s
Insulation voltage between	
relay outputs and internal	
circuits:	3.75 kV, SELV according to EN 60950
Minimal switched current:	10 mA/10 V
Switching frequency without	
load:	300 min <sup>-1</sup>
Switching frequency with	
rated load:	10 min <sup>-1</sup>
Mechanical life:	1x 10 <sup>7</sup>
Electrical life AC1:	1x 10 <sup>5</sup>
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 2 W
Rated current:	100-120 mA (at 27 V DC), from BUS
Connection	
Data:	terminals, 0.5 - 1 mm <sup>2</sup>
Network:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	into installation box
Dimensions and weight	
Dimensions:	142 x 94 x 36 mm
Weight:	210 g
	_10 g

- Glass card holder GCH3-31 is part of a comprehensive range of glass iNELS control units for guest room management system (GRMS).
- GCH3-31 serves for inserting the RFID card into the holder, whereby the system acquires the information about whether the hotel guest is present in the room. With this information it is possible to ensure for example Exit function with relation to energy savings in the absence of a guest in the room.
- Glass card holder is a design component of the iNELS system and is available in elegant black (GCH3-31/B) and white (GCH3-31/W) version.
- The GCH3-31 component is equipped with an RFID reader and is thus able to identify the specific hotel card inserted. Power saving function in the absence of a guest cannot be bypassed by simply inserting business cards into the holder.
- GCH3-31 supports RFID media with a carrier frequency of 13.56 MHz.
   Supported card types are MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1).
- The unit is also equipped with three touch buttons that can be used for example to set room status "Do Not Disturb" or "Make Up Room".
   This condition is then signalled to the glass card reader GCR3-11 or glass info panel GDB3-10 which are placed before the entrance to the room. Information may be sent directly to the hotel reception.
- Card holder printing is possible to customize to the investor requirements. The logo of the hotel can be shown for example. Likewise, it is also possible to adapt the card printing.
- The GCH3-31 unit is equipped with an 8 A relay output and an  ${\rm AgSnO_2}$  contact.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- GCH3-31 are designed for mounting into an installation box.



<sup>\*</sup> Order codes of all colours are available in the iNELS price list.

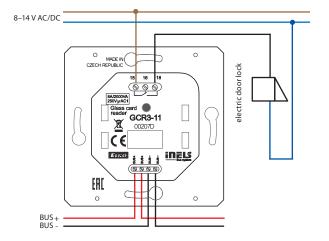




EAN code GCR3-11/B: 8595188157476 GCR3-11/W: 8595188157483 The picture of device is illustrative, the icons (symbols) are configurable by the customer.

Technical parameters	GCR3-11
Input	
Illuminance sensor:	1 to 100 000 Lx
Buttons	
Number of control buttons:	3
Туре:	Capacitive
Indication:	Coloured illuminated symbol
RFID readers	
Supported frequencies:	13.56 MHz
Card Type:	MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV
Outputs	
Signalling:	Do Not Disturb, Make Up Room
Output:	1x changeover 8 A/AgSnO <sub>2</sub>
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Switching voltage:	230 V AC/30 V DC
Switching output:	2000 VA/AC1; 240 W/DC
Peak current:	20 A/<3s
Insulation voltage between	
relay outputs and internal	
circuits:	3.75 kV, SELV according to EN 60950
Minimal switched current:	10 mA/10 V
Switching frequency	
without load:	300 min <sup>-1</sup>
Switching frequency	
with rated load:	10 min <sup>-1</sup>
Mechanical life:	1x 10 <sup>7</sup>
Electrical life AC1:	1x 10⁵
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 0.5 W
Rated current:	100-130 mA (at 27 V DC), from BUS
Connection	, "
Data:	terminals, 0.5 - 1 mm²
Network:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	into installation box
Dimensions and weight	
Dimensions:	94 x 94 x 36 mm
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

- Glass RFID card reader GCR3-11 is part of a comprehensive range of glass iNELS control units and can be advantageously used in all projects, e.g. guest room management system (GRMS).
- GCR3-11 card reader is designed for reading smart cards, which are intended to enter the hotel room or any other part of the building.
- GCR3-11 supports RFID media with a carrier frequency of 13.56 MHz.
   Supported card types MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1).
- The GCR3-11 is a design component of the iNELS system and is available in elegant black (GCR3-11/B) and white (GCR3-11/W) variants.
- Input card reader is the first device of guest room management system (GRMS), with which the hotel guest comes into contact first and therefore was designed with an emphasis on representative design.
- Printing is possible to customize to the investor requirements. The room number as well as the logo of the hotel can be also printed on each component.
- The controller is also equipped with touch button with function of bell and with two icons to indicate the status of guest requests, e.g. "Do Not Disturb" and "Make Up Room", whose state guest can set from multi-function touch panel EHT3, glass card holder GCH3-31, glass switch buttons GSB3-20/S, GSB3-40/S, GSB3-60/S or such GSP3-100 glass switch panel.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- Reader GCR3-11 is equipped with an 8 A relay output with  ${\rm AgSnO_2}$  contact for door lock control.
- Reader GCR3-11 is equipped with a sensor for ambient light intensity.
   Based on information from the sensor it can e.g. switch the lighting circuits in the corridor.
- All versions are in the size of the module (94x94 mm) from the line of luxury switches and sockets LOGUS<sup>90</sup> and are therefore fully in line with the design of frames for the sockets of this series, where you can just as for the controllers choose white and black glass frames.
- GCR3-11 are designed for mounting into an installation box.



Weight:

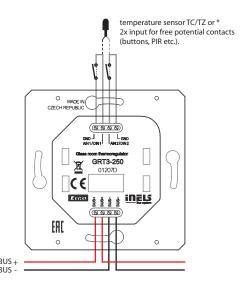
## **GRT3-250** | Glass room thermo-regulator

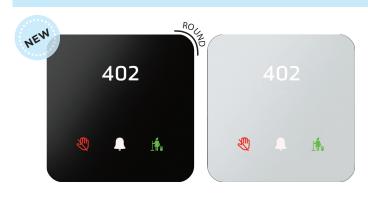


EAN code The picture of device is illustrative, the icons (symbols) are configurable by the customer GRT3-250/B: 8595188176569
GRT3-250/W: 8595188176576

Technical parameters	GRT3-250
Inputs	
Temperature measuring:	YES, built-in temperature sensor
Scope and accuracy of	
temp. measurement:	0 to +55°C; 0.3°C from the range
Humidity measurement:	YES
Humidity measurement range:	0 to 99% RH
Humidity measurement accurancy:	± 3 % Relative humidity
Inputs:	2x AIN/DIN
Resolution:	by setting 10-bit
External temperature sensor:	YES, the connection between
	AIN1/DIN1 and AIN2/DIN2
Type of external sensor:	TC/TZ
Temperature measurement range:	-20°C to +120°C
Temperature measurement accuracy:	0.5°C from the range
Buttons	
Number of control buttons:	5
Туре:	Capacitive
Indication:	Coloured illuminated symbol
Display	
Display:	colored TFT, 20 x 25.5 mm
Resolution:	240 x 240 pixels
Outputs	
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 0.5 W
Rated current:	85 mA (at 27 V DC), from BUS
Connection	
Terminals:	0.5 - 1 mm <sup>2</sup>
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	on the wall, observing the conditions for correct
	installation of the thermostat
Dimensions and weight	
Dimensions:	100 x 100 x 36 mm
	100 X 100 X 30 Hilli

- Glass room thermo-regulator GRT3-250 is part of a comprehensive range of glass iNELS control units for guest room management system (GRMS) and serves to regulate the temperature in the room.
- GRT3-250 thermo-regulator has a display for displaying the current room temperature and desired temperature. To adjust the required temperature, it is possible to use the touch buttons with symbols "-" and "+".
- GRT3-250 is also suitable for controlling fan coils and fan speed can be easily adjusted by using the touch buttons with symbols.
- Thermo-regulator GRT3-250 also has a further two touch buttons whose function can be adjusted by software, for example fan coil on/off, heating/cooling or comfort temperature for heating or cooling.
- Thermo-regulator is equipped with an integrated temperature sensor for ambient temperature measurement.
- The glass room thermo-regulator is a design component of the iN-ELS system and is available in elegant black (GRT3-250/B) and white (GRT3-250/W) version.
- Printing is possible to customize to the investor requirements.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- GRT3-250 are designed for mounting into an installation box.



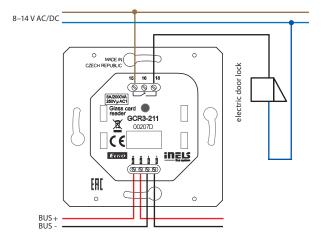


EAN code The picture of device is illustrative, the icons (symbols) are configurable by the customer

GCR3-211/B: 8595188176422 GCR3-211/W: 8595188176439

Technical parameters	GCR3-211
Input	
Illuminance sensor:	1 to 100 000 Lx
Buttons	
Number of control buttons:	3
Туре:	Capacitive
Indication:	Coloured illuminated symbol
RFID readers	
Supported frequencies:	13.56 MHz
Card Type:	MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1)
Outputs	
Signalling:	Do Not Disturb, Make Up Room
Output:	1x changeover 8 A/AgSnO
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Switching voltage:	230 V AC/30 V DC
Switching output:	2000 VA/AC1; 240 W/DC
Peak current:	20 A/<3s
Insulation voltage between	
relay outputs and internal	
circuits:	3.75 kV, SELV according to EN 60950
Minimal switched current:	10 mA/10 V
Switching frequency	
without load:	300 min <sup>-1</sup>
Switching frequency	
with rated load:	10 min <sup>-1</sup>
Mechanical life:	1x 10 <sup>7</sup>
Electrical life AC1:	1x 10 <sup>5</sup>
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 0.5 W
Rated current:	100-130 mA (at 27 V DC), from BUS
Connection	V. C.
Data:	terminals, 0.5 - 1 mm <sup>2</sup>
Network:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	into installation box
Dimensions and weight	into installation box
Dimensions:	100 x 100 x 36 mm
Weight:	
weight:	161 g

- Glass RFID card reader GCR3-211 is part of a comprehensive range of glass iNELS control units and can be advantageously used in all projects, e.g. guest room management system (GRMS).
- GCR3-211 card reader is designed for reading smart cards, which are intended to enter the hotel room or any other part of the building.
- GCR3-211 supports RFID media with a carrier frequency of 13.56 MHz.
   Supported card types MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1).
- The GCR3-211 is a design component of the iNELS system and is available in elegant black (GCR3-211/B) and white (GCR3-211/W) variants.
- Input card reader is the first device of guest room management system (GRMS), with which the hotel guest comes into contact first and therefore was designed with an emphasis on representative design.
- Printing is possible to customize to the investor requirements. The room number as well as the logo of the hotel can be also printed on each component.
- The controller is also equipped with touch button with function of bell and with two icons to indicate the status of guest requests, e.g. "Do Not Disturb" and "Make Up Room", whose state guest can set from multi-function touch panel EHT3, glass card holder GCH3-31, glass switch buttons GSB3-220/S, GSB3-240/S, GSB3-260/S or such GSP3-2100 glass switch panel.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- Reader GCR3-211 is equipped with an 8 A relay output with  ${\rm AgSnO}_2$  contact for door lock control.
- Reader GCR3-211 is equipped with a sensor for ambient light intensity. Based on information from the sensor it can e.g. switch the lighting circuits in the corridor.
- All versions are in the size of the module (100x100 mm) from the line of luxury switches and sockets LOGUS<sup>90</sup> and are therefore fully in line with the design of frames for the sockets of this series, where you can just as for the controllers choose white and black glass frames.
- GCR3-211 are designed for mounting into an installation box.



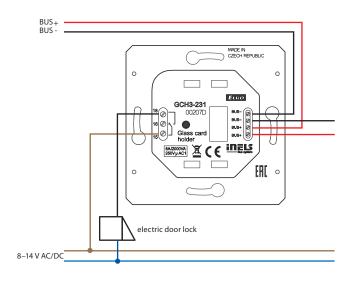


FAN code\*

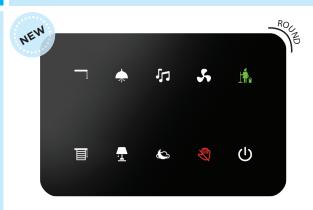
The picture of device is illustrative, the icons (symbols) are configurable by the customer.

•	GCH3-231
Input	
Illuminance sensor:	1 to 100 000 Lx
Buttons	
Number of control buttons:	3
Тур:	Capacitive
Indication:	Coloured illuminated symbol
RFID readers	
Supported frequencies:	13.56 MHz
Card Type:	MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV
Outputs	
Signalling:	Do Not Disturb, Make Up Room
Output:	1x changeover 8 A/AgSnO <sub>2</sub>
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Switching voltage:	230 V AC/30 V DC
Switching output:	2000 VA/AC1; 240 W/DC
Peak current:	20 A/<3s
Insulation voltage between	
relay outputs and internal	
circuits:	3.75 kV, SELV according to EN 60950
Minimal switched current:	10 mA/10 V
Switching frequency without	
load:	300 min <sup>-1</sup>
Switching frequency with	
rated load:	10 min <sup>-1</sup>
Mechanical life:	1x 10 <sup>7</sup>
Electrical life AC1:	1x 10 <sup>5</sup>
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 2 W
Rated current:	100-120 mA (at 27 V DC), from BUS
Connection	
Data:	terminals, 0.5 - 1 mm <sup>2</sup>
Network:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	into installation box
Dimensions and weight	
Dimensions:	150 x 100 x 36 mm

- Glass card holder GCH3-231 is part of a comprehensive range of glass iNELS control units for guest room management system (GRMS).
- GCH3-231 serves for inserting the RFID card into the holder, whereby
  the system acquires the information about whether the hotel guest is
  present in the room. With this information it is possible to ensure for
  example Exit function with relation to energy savings in the absence
  of a guest in the room.
- Glass card holder is a design component of the iNELS system and is available in elegant black (GCH3-231/B) and white (GCH3-231/W) version.
- The GCH3-231 component is equipped with an RFID reader and is thus able to identify the specific hotel card inserted. Power saving function in the absence of a guest cannot be by passed by simply inserting business cards into the holder.
- GCH3-231 supports RFID media with a carrier frequency of 13.56 MHz.
   Supported card types are MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1).
- The unit is also equipped with three touch buttons that can be used for example to set room status "Do Not Disturb" or "Make Up Room".
   This condition is then signalled to the glass card reader GCR3-11 or glass info panel GDB3-210 which are placed before the entrance to the room. Information may be sent directly to the hotel reception.
- Card holder printing is possible to customize to the investor requirements. The logo of the hotel can be shown for example. Likewise, it is also possible to adapt the card printing.
- The GCH3-231 unit is equipped with an 8 A relay output and an AgSnO<sub>2</sub> contact.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- GCH3-231 are designed for mounting into an installation box.



<sup>\*</sup> Order codes of all colours are available in the iNELS price list.



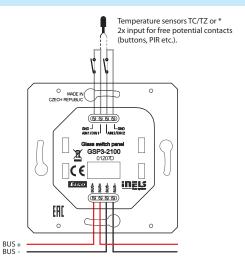
EAN code\* GSP3-2100/B: 8595188176583 GSP3-2100/W: 8595188176590

Technical parameters	GSP3-2100
Inputs	
Temperature measuring:	YES, built-in temperature sensor
Scope and accuracy of temp.	
measurement:	0 to $+55^{\circ}$ C; 0.3°C from the range
Inputs:	2x AIN/DIN
Resolution:	by setting 10-bit
External temperature sensor:	YES, the connection between
	AIN1/DIN1 and AIN2/DIN2
Type of external sensor:	TC/TZ
Temperature measurement range:	-20°C to +120°C
Temperature measurement accuracy:	0.5°C from the range
Buttons	
Number of control buttons:	10
Type:	Capacitive
Indication:	Coloured illuminated symbol
Outputs	
Acustic output:	piezo-changer
Tactile output:	Vibration motor
Communication	
Installation BUS:	BUS
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 0.5 W
Rated current:	25-65 mA (at 27 V DC), from BUS
Connection	
Terminals:	0.5 - 1 mm²
Operating conditions	
Relative humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20
Overvoltage category:	II.
Pollution degree:	2
Operation position:	any
Installation:	on the wall, observing the conditions for correct
	installation of the thermostat
Dimensions and weight	
Dimensions:	150 x 100 x 36 mm
Weight:	208 g



The picture of device is illustrative, the icons (symbols) are configurable by the customer.

- Glass Touch Panel GSP3-2100 is part of a comprehensive iNELS series
  of units for the management of the hotel rooms (GRMS), but the unit
  can be used wherever it is required to control multiple devices from
  one location.
- GSP3-2100 is equipped with ten touch buttons whose functions can easily be edited using the software.
- The graphics of individual symbols are possible based on consultations with manufacturers to change and adapt to the requirements of the investor.
- Individual symbols can be any one of seven backlight colours red, green, blue, yellow, pink, turquoise and white.
- Glass touch panel is a design component of the INELS system and is available in elegant black (GSP3-2100/B) and white (GSP3-2100/W) versions.
- Compared with standard glass touchscreen controllers with symbols GSB3-220/SB, GSB3-220/SW, GSB3-240/SB, GSB3-240/SW, GSB3-260/SB and GSB3-260/SW the GSP3-2100 is one and a half times the width.
- The touch panel is equipped with an integrated temperature sensor. It is also equipped with two analogue-to-digital inputs (AIN/DIN), which can be used to connect two potential free contacts or one external temperature sensor TC/TZ (e.g. For measuring the temperature of the floor).
- The touch panel is also equipped with an ambient light intensity sensor. Based on information from the sensor it can light up indicative illumination symbols or perform various actions with the iDM3 software, e.g. To also switch the lighting circuits in the room.
- Advantages over conventional switches/buttons is saving space, signalling the state of any system output, the ability to measure temperature and an option to connect external pushbuttons or detectors.
- Each button can control any actuator (appliance) in the system. Also, you can assign a different function or macro (set of functions) to each button. It is therefore possible to use one button to control several appliances.
- GSP3-2100 is designed for mounting into an installation box.



<sup>\*</sup> The choice is made in iDM3 for each unit separately.







The picture of device is illustrative, the icons (symbols) are configurable by the customer

# EAN code GSB3-220/SB: 8595188176408 GSB3-240/SB: 8595188176323 GSB3-260/SB: 8595188176361

## Technical parameters GSB3-220/S GSB3-240/S GSB3-260/S

•			
Inputs			
Temperature measuring:	YES, built-in temperature sensor		
Scope and accuracy of temp.			
measurement:	0 to +55°C; 0.3°C from the range		
Inputs:	2x AIN/DIN		
Resolution:	by setting 10-bit		
External temperature sensor:	YES, the connection between		
	AIN1/DIN1 and AIN2/DIN2		
Type of external sensor:	TC/TZ		
Temperature measurement range:	-20°C to +120°C		
Temperature measurement accuracy:	0.5°C from the range		
Illuminance sensor:	1 to 100 000 Lx		
Buttons			
Number of control buttons:	2 4 6		
Туре:	Capacitive		
Indication:	Coloured illuminated symbol		
Outputs			
Acustic output:	piezo-changer		
Tactile output:	Vibration motor		
Communication			
Installation BUS:	BUS		
Power supply			
Supply voltage/tolerance:	27 V DC, -20/+10 %		
Dissipated power:	max. 0.5 W		
Rated current:	25-35 mA 25-43 mA 25-50 mA		
	(at 27 V DC), from BUS		
Connection			
Terminals:	0.5 - 1 mm²		
Operating conditions			
Relative humidity:	max. 80 %		
Operating temperature:	-20 to +55 °C		
Storing temperature:	-30 to +70 °C		
Protection degree:	IP20		
Overvoltage category:	II.		
Pollution degree:	2		
Operation position:	any		
Installation:	on the wall, observing the conditions for correct		
	installation of the thermostat		
Dimensions and weight			
Dimensions:	100 x 100 x 36 mm		
Weight:	154 g		

- Glass touch controllers with symbols GSB3-220/S, GSB3-240/S and GSB3-260/S are part of a comprehensive range of glass iNELS control units and can be advantageously used in all projects for example as a part of guest room management system (GRMS).
- GSB3-220/S is equipped with two, GSB3-240/S with four and GSB3-260/S six touch buttons whose functions can easily modify by the software
- Printing is possible to customize to the investor requirements.
- Individual symbols can be illuminated in one of seven colours red, green, blue, yellow, pink, turquoise and white.
- Glass touch panel is a design component of the iNELS system and is available in elegant black (GSB3-220/SB, GSB3-240/SB, GSB3-260/SB) and white (GSB3-220/SW, GSB3-240/SW, GSB3-260/SW) versions.
- All versions are in the size of the module (100x100 mm) from the line
  of luxury switches and sockets LOGUS<sup>90</sup> and are therefore fully in line
  with the design of frames for the sockets of this series, where you can
  just as for the controllers choose white and black glass frames.
- The glass touch controllers is equipped with an integrated temperature sensor. It is also equipped with two analog-to-digital inputs (AIN/DIN), which can be used to connect two potential-free contacts or one external temperature sensor TC/TZ (for example temperature measurement of the floor).
- The glass touch controllers are also equipped with a sensor of ambient light intensity. Based on information from the sensor it can switch backlight of symbols or perform various actions in the iDM3 software, for example also switch the lighting circuits in the room.
- Advantages over conventional switches/buttons are saving space, signalling the state of any system output, the ability to measure temperature as well as the ability to connect external buttons or detectors.
- Each button can control any actuator (appliance) in the system. Also, you can assign each button a different function or macro (set of functions). It is therefore possible to use one button to control several appliances at once.
- GSB3-220/S, GSB3-240/S, and GSB3-260/S are designed for mounting into an installation box.

## IDRT3-1 | Digital room thermo-regulator



EAN code IDRT3-1 white: IDRT3-1 ivory: IDRT3-1 ice: IDRT3-1 pearl: IDRT3-1 aluminium:

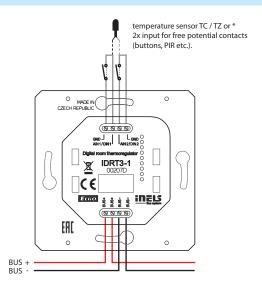
IDRT3-1 gray:

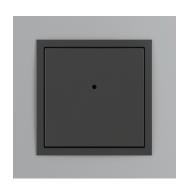
8595188149488 (device, cover) 8595188179614 (device, cover) 8595188179591 (device, covert) 8595188179621 (device, cover) 8595188179584 (device, cover) 8595188179607 (device, cover)

## **Technical parameters**

Technical parameters	IDRT3-1	
Inputs		
Temperature measuring:	YES, built-in thermo sensor	
Range/accuracy of		
temp. measuring:	0 to +55°C; 0.3°C from range	
Heating/cooling circuit cor-		
rection:	±3, ±4 or ± 5 °C	
Manual ontrol of heating/		
cooling circuit:	2 x buttons	
External temperature sensor:	YES, the connection between	
	AIN1/DIN1 and AIN2/DIN2	
Type of external sensor:	TC/TZ	
Temperature measurement range:	-20°C to +120°C	
Temperature measurement accuracy:	0.5°C from range	
Communication		
Installation:	BUS	
Display:	symbol display	
Backlight:	YES	
Power supply		
Supply voltage/tolerance:	27 V DC, -20/+10 %	
Dissipated power:	max. 0.5 W	
Rated current:	20 mA (at 27 V DC), from BUS	
Connection		
Terminals:	0.5 - 1 mm <sup>2</sup>	
Operating conditions		
Operating temperature:	0 to +50 °C	
Protection degree:	IP20	
Overvoltage category:	II.	
Pollution degree:	2	
Operation position:	vertical, downward with BUS terminal	
Installation:	into installation box	
Dimensions and weight		
Dimensions		
- plastic:	85.6 x 85.6 x 50 mm	
- metal, glass, wood, granite:	94 x 94 x 50 mm	
Weight:	76 g (without frame)	

- IDRT3-1 is a digital wall temperature controller used to regulate the temperature in a room.
- Using the IDRT3-1, it is possible to correct the given heating/cooling circuit within a range of  $\pm 3$ ,  $\pm 4$  or  $\pm 5$  °C (optional in SW iDM3).
- The temperature controller is equipped with an integrated heat sensor used to measure the room temperature. It is also equipped with two analog digital inputs (AIN/DIN), which can be used to connect two potential free contacts or a single external temperature sensor TC/TZ (e.g. for measuring the floor temperature).
- The display shows the current temperature and after pressing one of two buttons under the display, you can control the desired temperature.
- Readability improves after pressing one of the buttons to activate the backlight.
- Heating/cooling circuit is assigned with a thermo-regulator using iDM3.
- In the case of temperature correction within  $\pm 3$ ,  $\pm 4$  or  $\pm 5$  °C, this change is valid until the next time mark within the time schedule established in iDM3.
- IDRT3 -1 in design LOGUS<sup>90</sup> is intended for mounting into an installation box.

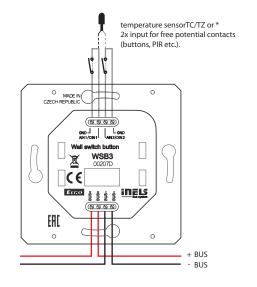




EAN code WSB3-20: 8595188132343 WSB3-20H: 8595188132473

Technical parameters	WSB3-20	WSB3-20H
Inputs		
Temperature measuring:	YES, built-in ten	nperature sensor
Scope and accuracy of		
temp. measuring:	0 to +55°C; 0.3°	C from the range
Number of control buttons:		2
Humidity measurement:	NO	YES
Humidity measurement range:	-	0 to 99% Relative humidity
Humidity measurement accurancy:	-	± 3 % Relative humidity
Inputs:	2x Al	N/DIN
External temperature sensor:	.,	ection between
		nd AIN2/DIN2
Type of ext. sensor:	TC	/TZ
Temperature measurement		
range:	-20 °C to	+120 °C
Temp. measurement		
accuracy:	0.5 °C fro	om range
Outputs		
Indication:	two-colored L	ED (red, green)
Number of LEDs:		1
Communication		
Installation BUS:	В	US
Power supply		
Supply voltage/tolerance:	27 V DC,	-20/+10 %
Dissipated power:	max.	0.5 W
Rated current:	25 mA (at 27 V	DC), from BUS
Connection		
Terminals:	0.5 -	1 mm²
Operating conditions		
Operating temperature:	-20 to	+55 °C
Storing temperature:	-30 to	+70 °C
Protection degree:	IP	220
Overvoltage category:	I	II.
Pollution degree:		2
Operation position:	a	ny
Installation:	into insta	llation box
Dimensions and weight		
Dimensions		
- plastic:	85.6 x 85.	6 x 42 mm
- metal, glass, wood, granite:	94 x 94	x 36 mm
Weight:	55 g (with	out frame)

- Wall controllers with low-upstroke control WSB3-20 and WSB-20H are the main and most frequently used units (controller) in the iNELS system.
- Built-in micro-buttons with low upstroke offer elegant and easy control.
- Wall switches WSB3-20 and WSB3-20H are available in two-channel version.
- Double color (red/green) LED diode indicates either status of controlled appliances or status of any sensor or actuator in the system.
- Wall buttons in WSB3 series are compatible with both types of frames LOGUS<sup>90</sup> (85.6 x 85.6 or 94 x 94 mm), therefore you can combine them with double and triple frames and classic products of the series.
- Each controller is equipped with a temperature sensor. It is also equipped with two analog/digital inputs (AIN/DIN), which can be used to connect two potentialless contacts or one external temperature sensor TC/TZ (e.g. for measuring floor temperature).
- Wall button WSB3-20H is comparable to the WSB3-20 but additionally equipped with a relative humidity meter, and for better access of air to the sensor can be used with 99621T including accessories 99622 (Vista MT) and 99,623 (Vista IRMT), instead of the housing cover 99601T.
- Compared to standard wall buttons WSB3-20 and WSB3-20H are more flexible and multifunctional. You can for example controll appliances by short and long push of the button (e.g.: dimming, shutter control, scenes).
- Each button can control any appliance in the system and can use a variety of centralized or time controlled features. Accordingly, the customer can choose the simplicity/complexity of the operation. The big advantage is the possibility to change the method of control by only making software modifications without physical interventions into the structure of the building.
- Each button (fold) can have different functional modes beside lighting control:
  - a) Classic wall-switch:
  - upper button ON, bottom button OFF
- b) Button controller (impulse relay):
- first press ON, second press OFF
- c) Dimmer:
- short press ON/OFF
- d) Time switch:
- ON after press, automatically OFF after set time
- e) Setting light scenes for example: for watching TV:
- shutters down
- main light 30% intensity
- wall-lamps 50% intensity
- WSB3 in LOGUS<sup>90</sup> design is designed for mounting into an installation box.



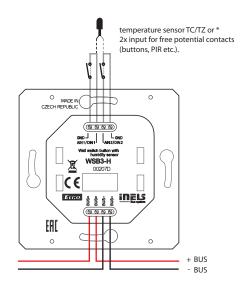
<sup>\*</sup> The choice is made in iDM3 for each unit separately.



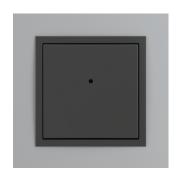
EAN code WSB3-40: 8595188132336 WSB3-40H: 8595188133043

Technical parameters	WSB3-40	WSB3-40H
Inputs		
Temperature measuring:	YES, built-in tem	nperature sensor
Scope and accuracy of		
temp. measuring:	0 to +55°C; 0.3°C	C from the range
Number of control buttons:	4	4
Humidity measurement:	NO	YES
Humidity measurement range:	-	0 to 99% Relative humidit
Humidity measurement accurancy:	-	± 3 % Relative humidity
Inputs:	2x All	N/DIN
External temperature sensor:	·	ection between nd AIN2/DIN2
Type of external sensor:		/TZ
Temp. measurement range:	10,	, 1 <i>L</i>
remp. measurement range.	-20 °C to	0 +120 °C
Temp. measurement	-20 Ctc	7+120 C
accuracy:	0.5°C fro	om range
Outputs	0.5 CH	mrange
Indication:	two-colored I	FD (red green)
Number of LEDs:	two-colored LED (red, green)	
Communication		
Installation BUS:	BI	US
Power supply		
Supply voltage/tolerance:	27 V DC, -	-20/+10 %
Dissipated power:		0.5 W
Rated current:	25 mA (at 27 V	DC), from BUS
Connection	- V	
Terminals:	0.5 - 1	l mm²
Operating conditions		
Operating temperature:	-20 to	+55 °C
Storing temperature:	-30 to +70 °C	
Protection degree:	IP20	
Overvoltage category:	II.	
Pollution degree:	2	
Operation position:	any	
Installation:	into installation box	
Dimensions and weight		
Dimensions		
- plastic:	85.6 x 85.	6 x 42 mm
- metal, glass, wood, granite:	94 x 94	x 36 mm
Weight:	55 g (with	out frame)

- Wall mounted controllers with upstroke control WSB3-40 and WSB3-40H are the basic and most popular feature (control) of the iN-ELS system.
- Built-in micro-switch with low upstroke offers elegant and pleasant control.
- Controllers WSB3-40 and WSB3-40H are supplied with four channels.
- Two-coloured indication LEDs located in each controller, can signal the status of controlled appliances or the status of any sensor or actuator in the system.
- Wall buttons in WSB3 series are compatible with both types of frames LOGUS<sup>90</sup> (85.6x85.6 or 94x94 mm), therefore you can combine them with double and triple frames and classic products of the series.
- Each controller is equipped with a temperature sensor. It is also equipped with two analog/digital inputs (AIN/DIN), which can be used to connect two potentialless contacts or one external temperature sensor TC/TZ (e.g. for measuring floor temperature).
- Compared to standard wall buttons WSB3-20 and WSB3-20H are more flexible and multifunctional. You can for example controll appliances by short and long push of the button (e.g.: dimming, shutter control, scenes).
- Each button can control any appliance in the system and can use a variety of centralized or time controlled features. Accordingly, the customer can choose the simplicity/complexity of the operation. The big advantage is the possibility to change the method of control by only making software modifications without physical interventions into the structure of the building.
- Each button (fold) can have different functional modes beside lighting control:
- a) Classic wall-switch:
- upper button ON, bottom button OFF
- b) Button controller (impulse relay):
- first press ON, second press OFF
- c) Dimmer:
- short press ON/OFF
- d) Time switch:
- ON after press, automatically OFF after set time
- e) Setting light scenes for example: for watching TV:
- shutters down
- main light 30% intensity
- wall-lamps 50% intensity
- $\bullet$  WSB3 in LOGUS  $^{90}$  design is designed for mounting into an installation box.



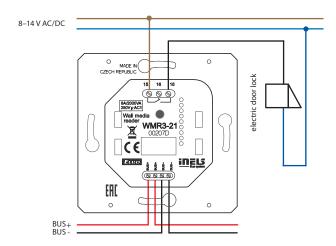
<sup>\*</sup> The choice is made in iDM3 for each unit separately.



EAN code WMR3-21: 8595188132756

Technical parameters	WMR3-21	
Inputs		
Number of control buttons:	2	
RFID readers		
Supported frequencies:	13.56 MHz	
Card Type:	MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1)	
Outputs	-	
Output:	1x changeover 8 A/AgSnO <sub>2</sub>	
Indication:	two-color LED (red, green)	
Acustic output:	piezo-changer	
Switching voltage:	230 V A/30 V DC	
Switching output:	2000 VA/AC1; 240 W/DC	
Peak current:	20 A/<3s	
Insulation voltage between		
relay outputs and internal		
circuits:	3.75 kV, SELV according to EN 60950	
Minimal switched current:	10 mA/10 V	
Switching frequency without	10.000	
load:	300 min <sup>-1</sup>	
Switching frequency with		
rated load:	15 min <sup>-1</sup>	
Mechanical life:	1x 10 <sup>7</sup>	
Electrical life AC1:	1x 10 <sup>5</sup>	
Communication	IX 10	
Installation BUS:	BUS	
Power supply	565	
Supply voltage/tolerance:	27 V DC, -20/+10 %	
Dissipated power:	max. 0.5 W	
Rated current:	50 mA (at 27 V DC), from BUS	
Connection	30 11/1 (dt 27 v 20), 110111 203	
Data:	terminals, 0.5 - 1 mm <sup>2</sup>	
Network:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve	
Operating conditions	max.2.5 mm / 1.5 mm with siceve	
Operating conditions  Operating temperature:	-20 to +55 °C	
Storing temperature:	-30 to +70 °C	
	IP20	
Protection degree:	II.	
Overvoltage category:		
Pollution degree:	2	
Operation position:	any	
Installation:	into installation box	
Dimensions and weight		
Dimensions	85.6 x 85.6 x 42 mm	
- plastic:	94 x 94 x 36 mm	
- metal, glass, wood, granite:		
Weight:	68 g (without frame)	

- WMR3-21 is a wall-mounted card reader that is designed for read contactless media (smart cards, key chains, etc.), which are used for controlling access to buildings or their parts.
- With the glass controller WMR3-21 users will appreciate the easy of control using two push buttons, which can be assigned different control functions lighting, shading, scenes, heating, etc.
- WMR3-21 reader can be used to control the security system (locking/ unlocking) access system (opening doors, gates, etc.) or appliances (based on assigned rights).
- WMR3-21 supports RFID media with the carrier frequency of 13.56 MHz. Supported card types MIFARE Ultralight, DESFire 2K (EV1), DESFire 4K (EV1).
- WMR3-21 is also equipped with 8 A relay output with changeover contact AgSnO<sub>2</sub>, by which controlled devices can be switched directly (or any actuator in the system can be set in software iDM3).
- Indication two-color LED in the controller cover can indicate not only the status of controlled appliance, but also the status of any sensor or actuator in the system.
- Wall card reader WMR3-21 is compatible with both types of frames LOGUS<sup>90</sup> (85.6 x 85.6 or 94 x 94 mm), therefore you can combine them with double and triple frames and classic products of the series.





FA3-612M

FA3-612M: 8595188135276

EAN code

Technical parameters

Supply voltage/tolerance/

Supply voltage of power section (relay) tolerance/ nominal current:

rated current:

Dissipated power:

recommend parameters	1715 012111
Input	
Analog inputs:	3x voltage, current or temperature input
Number of inputs:	3
Galv. separation from inner	
circuits:	No
Diagnostic:	indication red LED OVERRANGE
g	(exceeding the range, interruption of a sensor of
	overload of Uref output)
Common terminal:	GND
Converter resolution:	14 bits
Input resistance	IT DILS
- for voltage ranges:	20070V 150 kO
	approx. 150 kΩ
- for current ranges:	100 Ω
Types of inputs/measuring	<b>Voltage</b> (U): $0 \div +10 \text{ V}$ (U); $0 \div +2 \text{ V}$ (U)
ranges*:	Current (I): 0 ÷ +20 mA (I); ÷ +20 mA (I)
	temperature: input at ext. temperature sensor TC
	TZ, Ni1000**, Pt1000**, Pt100** see accessories/
	according to used sensor from -30°C to 250°C
Digital inputs:	3x switching or expansion, positive logic (SINK)
Input voltage:	20 - 240 V AC (50 - 60 Hz)/DC
Galv. separation from internal	
circuits:	Yes
Common lead:	GO COM3
Outputs	
Analog:	4x (A_OUT1 - A_OUT4)
Voltage analog. output/max.	
Current:	4x 0(1) - 10 V/10 mA
Uref reference voltage	
outputs	
Voltage/Current Uref:	10 V DC/100 mA
Output overload indication:	red LED OVERLOAD
SSR (Electronic Relay):	4x (VALVE1 - VALVE2)
Switching voltage:	20 - 240 V AC
Switching capacity:	480 VA
Peak current:	20 A, t ≤ 16 ms
Output indication:	yellow LED
Relay 6A:	4x (FAN1-FAN3, RE)
Switching voltage:	250 V AC, 24 V DC
Switching capacity:	1500 VA/AC1; 300 VA/AC15; 180 W/DC, AC3
Relay outputs separated from	reinforced Insulation
from all internal circuits:	(Cat. II surges by EN 60664-1)
Minimum switching load:	500 mW (12 V/10 mA)
Mechanical life:	10x10 <sup>6</sup>
Electrical life AC1:	6x10 <sup>4</sup>
Output indication:	yellow LED
Communication	yenow LLD
Installation BUS:	BUS
Status indication unit:	green LED RUN
Power supply	green LED ROIN
i owei suppiy	

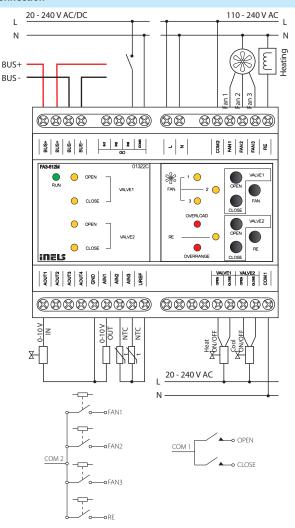
27 V DC, -20/+10 %, 5 mA

AC 230 V (50 Hz), -15/+10 %, 20 mA

max. 1 W

- FA3-612M is a unit (actuator) designed to control fan coil units using analogue/digital inputs and analog/relay outputs.
- Analog inputs for temperature, voltage or current measurement (URef reference voltage can also be used).
- The digital inputs are galvanically isolated with positive logic (Sink) in the 24-230 V AC/DC voltage range.
- Analog outputs 0-10 V.
- · Connection to the installation BUS.
- Buttons for closing/opening the valve, fan and heating relay.
- The LEDs on the front panel indicate FAN, RE, VALVE1, VALVE2, OVER-RANGE, and OVERLOAD status.
- FA3-066M in 6-MODULE version is designed for mounting into a switchboard, on DIN rail EN60715.

Connection	
Terminal:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve
Operating conditions	
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20 device, IP40 mounting in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operating position:	any
Installation:	switchboard on DIN rail EN 60715
Design:	6-MODULE
Dimensions and weight	
Dimensions:	90 x 105 x 65 mm
Weight:	307 g



- \* selectable for each input individually by configuration in the user program iDM3.
- \*\* The FA3-612M / Pt version is available for these sensors.



IM3-140M

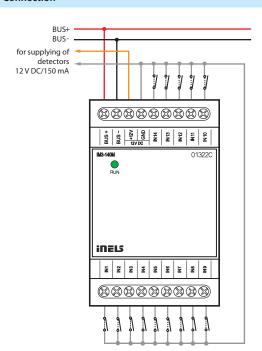
EAN code IM3-140M: 8595188132459

Technical parameters

recommend parameters	11113 1 10111
Inputs	
Input:	14x NO or NC against GND (-)
	IN1 - IN7 -are balanced inputs
Max. frequency pulse reading:	20 Hz
Outputs	
Output (power supply 12 V	
for sensors):	12 V DC/150 mA
Communication	
Installation BUS:	BUS
Data transfer indication:	green LED
Power supply	
Supply voltage/tolerance:	27 V DC, -20/+10 %
Dissipated power:	max. 1 W
Rated current:	25 mA (at 27 V DC), from BUS
Rated current for full	
load on output 12 V DC:	
	100 mA
Connection	
Terminal:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve
Operating conditions	
Air humidity:	max. 80 %
Operating temperature:	-20 to +55 °C
Storing temperature:	-30 to +70 °C
Protection degree:	IP20 device, IP40 mounting in the switchboard
Overvoltage category:	II.
Pollution degree:	2
Operating position:	any
Installation:	into a switchboard rail to DIN EN 60715
Design:	3-MODULE
Dimensions and weight	
Dimensions:	90 x 52 x 65 mm
Weight:	104 g

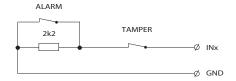
- Binary input unit IM3-140M is designed to connect up to 14 devices with potentialless contact (such as switches, buttons of other designs, fire and glass detectors and others).
- Inputs IN1 IN7 can be balanced.
- Contacts of external devices connected to the inputs of the drive can be NO or NC Input parameters are configured in the software iDM3.
- Inputs must be configured as balanced or double balanced in an internal Electronic security system configurated in iDM3 software.
- The unit generates a supply voltage of 12 V DC/150 mA for powering external detectors, so it can power PIR detectors, fire and gas detectors.
- Active use 12 V DC output for powering detectors increases the nominal consumption units from BUS (see technical data).
- The unit can be used for counting pulses of energy meters with pulse output.
- IM3-140M in 3-module is designed for switchboard mounting on DIN rail EN60715.

#### Connection

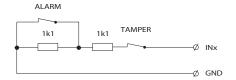


## **Balanced** input

Simple:



Double:





EAN code DA3-22M: 8595188132626 DA3-22M/120V: 8595188133036

#### DA3-22M/120V **Technical parameters DA3-22M** Inputs A Input: 2x inputs, switching potential L\* Temperature measuring: 🛕 YES, input for external thermo sensor TC/TZ Scope and accuracy of temp. measurement: -20 to +120°C; 0.5°C from the range Number of control buttons: 2x buttons 4x potenciometers on front panel Outputs Output: 2x contactless outputs, 2x MOSFET Load type: resistive, inductive, capacitive\*\*, LED, ESL Isolation BUS separated from reinforced Insulation all internal circuits: (Cat. II surges by EN 60664-1) Isolation voltage between max. 500 V AC particular power: Minimal controlled load: 10 VA Maximal controlled load: 400 VA for each channel 200 VA for each channel Output indication ON/OFF: 2x yellow LED Device protection: thermal/short-term overload/ long-term overload Communication Installation BUS: BUS Power supply Supply voltage by BUS/ 27 V DC, -20/+10 % tolerance: Rated current: 5 mA (at 27 V DC), from BUS Status indication unit: green LED RUN AC 230 V (50 Hz), AC 120 V (60 Hz), Supply voltage for power section/tolerance: -15/+10 % -15/+10 % Dissipated power: max. 13 W max. 7.5 W Connection Terminal: max. 2.5 mm<sup>2</sup>/1.5 mm<sup>2</sup> with sleeve **Operating conditions** Air humidity: max. 80 % Operating temperature: -20 to +35 °C Storing temperature: -30 to +70 °C IP20 device, IP40 mounting in the switchboard Protection degree: II. Overvoltage category: Pollution degree: 2 Operating position: vertical Installation: switchboard on DIN rail EN 60715 Design: 3-MODULE Dimensions and weight Dimensions: 90 x 52 x 65 mm

- \* The inputs are not galvanically isolated from the supply voltage.
- \*\* Attention: It is not allowed to connect loads of inductive and capacitive character, at the same time.

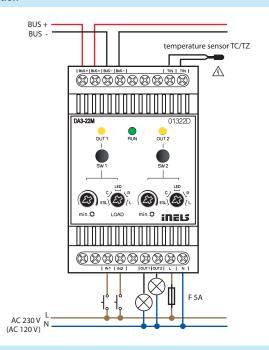
170 g

 $\triangle$  Input is connected to the mains voltage potential.

Weight:

- DA3-22M is a universal dimming 2-fold actuator enabling control of brightness intensity of dimmable light sources of the type ESL, LED and RLC with power supply 230 V.
- DA3-22M has two MOSFET controlled outputs 230 V AC, maximum load is  $2x\,400\,VA$ .
- · Option of connecting an external temperature sensor.
- Each output channel is independently controllable and addressable.
- Type of light source is set by a switch on the front panel.
- By setting the min. brightness potentiometer on the front panel, flashing of different types of light sources is eliminated.
- DA3-22M is equipped with two inputs 230 V AC, which can be controlled by mechanical switches (buttons, relays). Inputs are galvanically connected to potential L, which is permanently at the terminals IN1 and IN2.
- Buttons on the front panel, you can manually switch on or off the corresponding output.
- Electronic overcurrent and thermal protection switch off output in case of overload short circuit and overheating.
- The power supply (potential L) must be protected by a protective element corresponding to the power input of the connected load, e.g. a safety fuse.
- During installation, it is necessary to leave on each side of the actuator at least half the module space for better cooling.
- DA3-22M in 3-MODULE version is designed for mounting into a switchboard on DIN rail EN60715.

## Connection



## Types of connectable loads

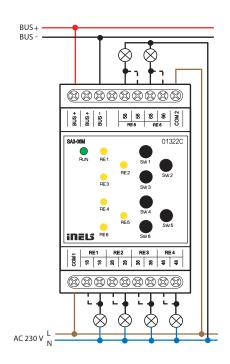
type of source	symbol	description
R resistive	HAL. 230 V	ordinary light bulb, halogen lamp
L inductive	HAL. 12-24 V	coiled transformer for low-voltage halogen lamps
C capacitive		electronic transformer for low-voltage halogen lamps
LED	Ä	LED lamps and LED light sources, 230 V
ESL		dimmable energy-saving fluorescent tubes

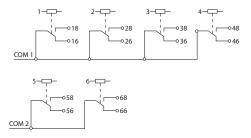


EAN code \$A3-06M+ 8595188132879

<b>Technical parameters</b>	SA3-06M	
Outputs		
Output:	6x changeover 8 A/AC1	
Switching voltage:	250 V AC, 24 V DC	
Switching output:	2000 VA/AC1, 192 W/DC	
Surge current:	10 A	
Output relays separated from	reinforced Insulation	
all internal circuits:	(Cat. II surges by EN 60664-1)	
Isolation between relay out-	reinforced Insulation	
puts COM1 and COM2:	(Cat. II surges by EN 60664-1)	
Isolation between individual	basic insulated	
relay outputs:	(Cat. II surges by EN 60664-1)	
Isolates. voltage open	(eath in saliges by Entropes 1.)	
relay contact:	1 kV	
Max. current terminals	1 114	
COM1 and COM2:	16 A	
Min. switched current:	100 mA/5 V DC	
Switching frequency/no load:	300 min <sup>-1</sup>	
Switching frequency/rated load:		
Mechanical life:	15 min <sup>-1</sup>	
Electrical life AC1:	2x 10 <sup>7</sup> 5x 10 <sup>4</sup>	
Output indication:	6x yellow LED	
Communication	DUG	
Installation BUS:	BUS	
Power supply		
Supply voltage/tolerance:	27 V DC, -20/+10 %	
Dissipated power:	max. 9 W	
Rated current:	60 mA (at 27 V DC), from BUS	
Status indication unit:	green LED RUN	
Connection		
Terminal:	max. 2.5 mm <sup>2</sup> /1.5 mm <sup>2</sup> with sleeve	
Operating conditions		
Air humidity:	max. 80%	
Operating temperature:	-20 to +55 °C	
Storing temperature:	-30 to +70 °C	
Protection degree:	IP20 device, IP40 mounting in the switchboard	
Overvoltage category:	II.	
Pollution degree:	2	
Operation position:	any	
Installation:	switchboard on DIN rail EN 60715	
Design:	3-MODULE	
Dimensions and weight		
Dimensions:	90 x 52 x 65 mm	
Weight:	160 g	

- The actuator is designed for switching up to six various appliances and loads with potentialless contact.
- SA3-06M is a switching actuator contains 6 independent relays with changeover potentialless contacts.
- Maximum load per contact is 8 A/2000 VA/AC1.
- Each of six output contacts are individually controllable and addressable.
- The relays are divided into two groups, the group of four relays on the bottom terminal switches the common potential, a pair of relays on top of the terminal switches second common potential.
- The actuator is suitable for operating discontinuously controlled thermo drives in the distributor underfloor heating.
- LEDs on the front panel signal the status of each output.
- Contact status of each relay can be changed separately and manually by control buttons on a front panel.
- SA3-06M is normally supplied in the option AgSnO<sub>2</sub> contact material.
- SA3-06M in 3-MODULE version is designed for mounting into a switchboard/DIN rail EN60715.







EAN code SA3-012M: 8595188132466 SA3-012M/120V: 8595188133029

Dimensions:

Weight:

**Technical parameters** SA3-012M SA3-012M/120V Outputs 12x NO 8 A/AC1 Output: Switched voltage: 250 V AC, 24 V DC 2000 VA/AC1, 192 W/DC Switched output: Peak current: 10 A Output relays separated reinforced Insulation from all internal circuits: (Cat. II surges by EN 60664-1) Isolation between relay outputs reinforced Insulation COM1, COM2 and COM3: (Cat. II surges by EN 60664-1) Isolates. voltage open relay contact: 1 kV Max. current of one common terminal: 16 A Minimal switched current: 100 mA/10 V DC Switching frequency without load: 300 min<sup>-1</sup> Switching frequency with rated load: 15 min<sup>-1</sup> Mechanical life: 1x 10<sup>7</sup> Electrical life AC1: 1x 10<sup>5</sup> Output indication: 12 x yellow LED Communication Installation BUS: BUS reinforced Insulation The installation BUS is separated from all internal circuits: (Cat. II surges by EN 60664-1) Status indication unit: green LED RUN **Power supply** Voltage of BUS/tolerance/ nominal current: 27 V DC, -20/+10 %, 5mA Supply voltage of power section (relay) tolerance/ AC 230 V (50 Hz), AC 120 V (60 Hz), nominal current: -15/+10 %, 20 mA -15/+10 %, 40 mA Dissipated power: max. 6 W max. 5 W Connection Terminal: max. 2.5 mm<sup>2</sup>/1.5 mm<sup>2</sup> with sleeve **Operating conditions** -20 to +55 °C Operating temperature: Storing temperature: -30 to +70 °C Protection degree: IP20 device, IP40 mounting in the switchboard II. Overvoltage category: Pollution degree: 2 Operating position: any switchboard on DIN rail EN 60715 Installation: Design: 6-MODULE Dimensions and weight

90 x 105 x 65 mm

310 g

- The actuator is designed for switching to twelve various appliances and loads with potentialless contact.
- SA3-012M is a switching actuator containing 12 independent relays with NO potentialless contacts, with the fact that switches the same potential.
- Maximal loadability of contacts is 8 A/2000 VA/AC1.
- Each of the twelve output contacts are individually controllable and addressable.
- Actuator SA3-012M is powered by an AC voltage 230 V. The unit SA3-012M/ 120 V is powered by AC voltage 120 V AC.
- BUS is galvanically separated from the internal circuits of unit.
- LED on front panel signalizes state of each output.
- Contact status of each relay can be changed separately and manually by control buttons on a front panel.
- SA3-012M is normally supplied in the option AgSnO<sub>3</sub> contact material.
- SA3-012M in design 6-MODULE is designed to be mounted into a switchboard, onto DIN rail EN60715.

