# SIEMENS





# Synco™700

# **Central control unit**

# **RMB795B**

for room controllers and room thermostats

- 10 independent room groups
- Freely programmable controller, for optimum adaption to the relevant plant type
- Modular extensions
- Menu-guided operation with separate operating unit (plug-in type or detached)
- KNX bus connection for operation and process information

Use

The central control unit RMB795B provides centralized operation of room groups using room temperature controllers with adjustable scheduler, calendar, and special day programs, setpoint preselections and trend functions and collecting and forwarding of request signals to the primary side. The RMB795B central control unit is operated via a plug-in type or detached operator unit. Together with the room controllers RXB/RXL and the room thermostats RDG/RDF/RDU the following additional functions are possible: Acquisition of the highest/lowest temperature and device supervision.

# Function

Time switch	Yearly time switch with automatic summer/winter changeover.
Room groups	<ul> <li>Per RMB795B central control unit up to 10 individual room groups can be configured.</li> <li>A room group operates room temperature controllers with the same: <ul> <li>Room operating modes</li> <li>Room setpoints</li> <li>Setpoint adjustments (summer/winter compensation)</li> <li>Emergency modes.</li> </ul> </li> <li>Each room group has its own 7-day program (6 switching points per day); time switch entries can be copied.</li> <li>Each room group with its own calendar (16 programmable periods) can also act on several time switches or room groups.</li> </ul>
Heating and cooling demand	The control unit can receive heating/cooling requests from any KNX room tempera- ture controllers out of the rooms. From these signals a total demand is calculated which is being forwarded to any KNX primary controllers. Non-communicative pri- mary controllers can also be controlled via 010V signal and/or relay.
Universal inputs	<ul> <li>6 universal inputs for:</li> <li>Passive or active analog input signals of various measured variables (°C, %, g/kg, kJ/kg, W/m<sup>2</sup>, bar, mbar, m/s, Pa, and ppm).</li> <li>Digital input signals (potential-free contacts)</li> <li>The input signals can be received from the bus or sent over the bus.</li> </ul>
Data acquisition	<ul> <li>Pulse meters/counters (for display only, not for billing purposes).</li> <li>Four meters are available to acquire consumption data.</li> <li>Pulses from gas, hot water, cold water and electricity meters are processed.</li> <li>Adjustable units: (Wh, kWh, MWh, kJ, MJ, GJ, ml, I, m<sup>3</sup>, heating cost units, BTU, no unit).</li> <li>Trend data display</li> <li>4 independent trend channels are available to record measured values by time.</li> <li>In addition to local inputs on the unit, room temperatures and outside temperature can also be recorded via KNX bus.</li> </ul>
Logic functions	<ol> <li>10 logic function blocks can be freely configured to process multiple logically linked universal input variables.</li> <li>Configurable logic functions.</li> <li>Adjustable switch-on and switch-off delay and minimum switch-on and switch-off time.</li> <li>Operating switch (auto, off, on), configurable for manual control.</li> </ol>
Switching and monitoring functions	<ul> <li>Fault indication with red LED, acknowledgement with button. Two relay outputs can be configured as fault relays; ten universal inputs as fault status inputs.</li> <li>If the room temperature controllers are used with a 2-pipe system heating/cooling, the central control unit RMB795B notifies the room temperature controllers via a digital signal or over the bus of the changeover signal "heating/cooling".</li> </ul>

Functions with universal modules	<ul> <li>Additional inputs and outputs to extend the functionality of the central control unit RMB795B (e.g. fault status messages, etc.).</li> <li>Can be extended using a universal module RMZ785 and two universal modules RMZ787.</li> </ul>
Bus functions	<ul> <li>Time synchronization.</li> <li>Passing on and adoption of outside temperature signal.</li> <li>Sending or receiving the yearly time switch schedule (clock, weekday, date, summer/winter changeover) to another unit.</li> <li>Sending of the input and output signals over the bus</li> <li>Receiving of the input signals from the bus</li> </ul>
Service and operating functions	<ul> <li>Outside temperature simulation.</li> <li>Wiring test.</li> <li>Data backup.</li> <li>Display of setpoints, actual values.</li> </ul>

# Additional functions with RXB/RXL and RDG/RDF/RDU (KNX LTE mode)

Reference rooms	1 to 3 specially selected individual rooms can be defined as reference rooms used to calculate the "Night cooling" function. The temperatures of the reference rooms can be displayed for each room group.
Highest / lowest room temperature	The highest and lowest current room temperature for each room group can be displayed. This provides an overview of temperature distribution in a room group.
Operation of RXB/RXL room controller	The function "Operate RXB/RXL" reads and writes various RXB/RXL data points. These are selected values such as room number, actual values, setpoints, operating mode, and current heat and refrigeration requests. The data points displayed depend on the type of RXB/RXL room controller and its application.
Switching and monitor- ing functions	<ul> <li>Fire alarm off: In an emergency, the room controllers or room thermostats assigned to a room group can be switched off via input signal.</li> <li>Smoke extraction: A room group can be switched to "Smoke extraction" mode via 1 or 2 input signals.</li> <li>Device supervision checks the connected room controllers or room thermostats for each room group and detects failure of one or several units.</li> </ul>
Bus functions	<ul> <li>The room operating unit QAW740 can be assigned to one room group.</li> <li>Indication of fault status messages from other units on the bus.</li> <li>Common fault status message from all units on the bus to a fault status relay.</li> </ul>

# Types

Central control unit	Product	Universal	Positioning	Switching	Default lang	guages	
	DMB705B-1	6	2	1	do fr it es	nt	
	RWD795D-1	0	2	4		ρι	
	RIVID/95D-2	0	2	4			
	RIVID/95D-3	0	2	4			
	RIVID/95D-4	0	2	4		i, iu, bg	
	RIMB/95B-5	6	2	4		ei, u	
	RIVIB/95B-6	6	2	4	zn		
Accessories	Name				Product number	Data Sheet	
Operator/service units	Operator unit,	plug-in type			RMZ790	N3111	
	Operator unit,	detached			<b>RMZ791</b>	N3112	
	Service tool				OCI700.1	N5655	
Extension modules	Universal mod	dule with univ	versal inputs		<b>RMZ785</b>	N3146	
	Universal mod	dule with 4 ur	niversal inputs and	4 relav outputs	RMZ787	N3146	
	Module conne	ector for deta	ched option modu	les	RMZ780	N3138	
Ordering and delivery							
Equipment combinations	ample: Central The devices lis	sted under "A	RMB/95B-1. accessories" must	be ordered as s	eparate items	S.	
	Possible equipment combinations are available in the "Synco™700 product range overview".						
Product documentation							
	Name				Orderin number	g	
	Synco™700 product range overview				CE1N3	CE1N3110en	
	Basic documentation, detailed description of all functions					122en	
	Installation instructions G3151: RMB795, RMS705B, RMU7B					74 319 0731 0	
	Operating instructions (de, fr, it, es) B3121x1					0461 0	
	Operating instructions (de, fr, nl, en) B3121x2					74 319 0462 0	
	Operating instructions (da, fi, sv) B3121x3				74 319	74 319 0463 0	
	Operating instructions (cs, pl, sk, hu) B3121x4				74 319	0464 0	
	Operating instructions (ro, sl, sr, hr) B3121x5				74 319	0465 0	
	Data sheet "KNX bus"				CE1N3	127en	
	Synco KNX s-mode data points				CE1Y3	110en	
	Basic documentation			CE1P3	CE1P3127en		
	"Communicati	on via KNX k	ous" for Synco unit	ts and devices	5=•		
	Declaration of	conformity (	CE)		CE1T3	110xx	
	Environmenta	I declaration	•		CE1E3	110en01	

The central control unit RMB795B with the aid of operator unit RMZ790 or RMZ791 allow free configuration of applications.

For operating actions of the functions, see Basic documentation CE1P3122en.

#### Mechanical design

The unit consists of a device insert and terminal base. The terminal base has two terminal levels as well as connection elements (electrical and mechanical) for one extension module. The device insert with its printed circuit boards is attached to the terminal base.

The device can be mounted on a top hat rail (EN 60 715-TH35-7.5), or directly on a wall.

Operation takes place either with a plug-in type or detached operator unit (refer to section "Accessories").



11 Rest for terminal cover

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- AC 24 V voltage is required to power the device. SELV/PELV requirements (safety extra low-voltage) must be met.
- Safety isolating transformers featuring double insulation as per EN 60742 or EN 61558-2-6 must be used; they must be suited for 100% duty.
- Fuses, switches, wiring, and earthing must comply with local regulations for electrical installations.
- Avoid running sensor wires parallel to mains carrying wires powering fans, actuators, pumps, etc.
- The unit allows for using one RMZ785 extension module as well as two RMZ787 extension modules.

### Mounting and installation notes

- The unit and the extension modules are designed for:
  - Mounting in a standard cabinet as per DIN 43880.
  - Wall mounting on an existing top hat rail (EN 50022-35x7.5).
  - Wall mounting using two fixing screws.
  - Flush-panel mounting.
- Mounting in wet or damp spaces is not allowed; observe all permissible environmental conditions.
- If the controller is not operated inside a control panel, use the detached operator unit RMZ791 in place of the plug-in unit RMZ790.
- Disconnect the system from power prior to mounting and installing the unit.
- Do not remove the controller insert from the terminal base!
- If extension modules are used, attach them to the right side of the unit in the correct order as per the internal configuration.
- The extension modules require no wiring between themselves or to the unit; electrical connections are made automatically when attaching the modules. If not all extension modules can be arranged side by side, the first of the detached modules must be connected to the last previous module or to the unit using the RMZ780 module connector. In this case, the cumulated cable length is max. 10 m.
- All connection terminals for protective extra low-voltage (sensors, data bus) are located in the upper half of the unit, those for mains voltage (actuators and pumps) in the lower half.
- Each terminal (spring cage terminal) can only accommodate one solid wire or one stranded wire. For connections, strip the cables to 7 to 8 mm. To introduce the cables into the spring cage terminals and to remove them, a screw driver size 0 or 1 is required. Cable strain relief can be provided with the help of the fastening strap for cable ties.
- The unit mounted on a top hat rail together with modules can be removed from the rail only after the module directly attached to the unit has been removed.
- The controller is supplied complete with installation instructions.



Kleinspannungsseite

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Netzspannungsseite

#### **No internal line protection for supply lines to external consumers.** Risk of fire and injury due to short-circuits!

Adapt the line diameters as per local regulations to the rated value of the installed overcurrent protection device.

	<ul> <li>Configuration and parameters of the application programmed in the unit can be changed locally using the operator unit RMZ790 or RMZ791, or using a service tool online or offline by trained staff authorized accordingly (access rights).</li> <li>During commissioning, the application is deactivated and the outputs are in a defined off state. As a result, no process and alarm signals are sent to the bus.</li> <li>After completing configuration, the unit automatically restarts.</li> <li>When exiting the commissioning pages, the peripheral devices connected to the universal inputs (including the extension modules) are automatically tested and identified. If a peripheral device is missing, an error message is generated.</li> <li>The operator unit can be removed and plugged in or connected during operation.</li> <li>If adaptations to specific plants are required, they must be recorded and the documentation stored inside the control panel.</li> <li>Procedures for commissioning and initial start are described in the installation instructions.</li> </ul>
General notes	
Maintenance	The central control unit RMB795B is maintenance free (no battery changes, no fuses). The housing may only be cleaned with a dry towel.
Repair	The central control unit cannot be repaired on site.
Disposal	<ul> <li>The devices are considered electronics devices for disposal in term of European Directive 2012/19/EU and may not be disposed of as domestic waste.</li> <li>Dispose of the device via the channels provided for this purpose</li> <li>Comply with all local and currently applicable laws and regulations.</li> </ul>

# **Technical data**

Power supply (G. G0)	Rated voltage range	AC 24 V +20 % (SELV)		
· • · · · · • • • • • • • • • • • • • •	Safety extra low-voltage (SELV) / protective extra low-	HD 384		
	voltage (PELV) as per the requirements placed on external	HD 304		
	safety transformers (100% duty max 320 VA) as per	EN 60742 / EN 61559 2 6		
		EN 007427 EN 01556-2-0		
	Frequency	50/60 Hz		
	Power consumption (excl. modules)	Max. 12 VA		
	External supply line protection	Fuse slow max. 10 A		
		or		
		Circuit breaker max. 13 A		
		Characteristic B. C. D according to		
		EN 60898		
		or		
		Power source with current limitation of		
		max 10 A		
Functional data	Clock reserve	48 nours typical, min. 12 nours		
Universal inputs	Number	See "Type summary"		
Measured value inputs (X)	Sensors			
	Passive	LG-Ni 1000, T1, Pt 1000		
		2x LG-Ni 1000 (averaging)		
	Active	DC 010 V		
Status inputs (X )	Contact sensing			
	Voltage	DC 15 V		
	Current	5 mA		
	Poquiromente for status contacte	0 11/1		
		Dotontial free		
	Signal coupling	Foleniidi-iiee		
	I ype of contact			
		AC 3750 V as per EN 60730		
	Requirements for pulse contacts	Screened cables recommended		
	Signal coupling	Potential-free		
	Type of contact	Pulse contact		
	Mechanical transmitter (reed contract)			
	Maximum pulse frequency	25 Hz		
	Minimum pulse length	20 ms (with max. 10 ms bounce length)		
	Electronic transmitter	100 Hz		
	Maximum pulse frequency	5 ms		
	Minimum pulse length	AC 3750 V as per EN 60730		
	Insulating strength against mains potential			
	Perm. resistance			
	Contacts closed	Max. 200 Ω		
	Contacts open	Min. 50 kΩ		
Outputs	Number of positioning and switching outputs	See "Type summary"		
Positioning outputs Y				
	Output current	±1 mA		
	Max. load	Continuous short-circuit		
	External supply line protection	see section power supply		
$\Lambda$	Relay contacts			
	Switching current	Max. AC 250 V		
	, and the second se	Min. AC 19 V		
AC 250 V (QTAQ5A)	Load AC	Max. 4 A res., 3 A ind. ( $\cos \phi = 0.6$ )		
	At 250 V	Min. 5 mA		
	At 19 V	Min. 20 mA		
	Switch-on current	Max. 10 A (1 s).		
	Contact life at AC 250 V	Guide values:		
	At 0.1 A res	$2 \times 10^7$ cycles		
	At 0.5 A res	$4 \times 10^6$ cycles (N $\Omega$ )		
	A 0.0 / (100.	$2 \times 10^6$ cycles (changeover)		
	At 4 A res	$3 \times 10^5$ cycles (N O )		
		$1 \times 10^5$ cycles (changeover)		
	Red Eactor at ind $(\cos \alpha = 0.6)$			
	$\frac{1}{1000} + \frac{1}{1000} + 1$	0.00		
	Retwoon rolay contacts and system electronics (reinforced			
	between relay contacts and system electronics (reinforced	AC 3750 V as par EN 60720 1		
	INSUIdUOII)	AC 3730 V as per EN 60/30-1		
	Detween neighboring relay contacts (operational insulation)			
	Q1⇔QZ	AU 1200 V as per EN 60/30-1		
	Between relay groups (reinforced insulation)			
	$(Q1, Q2) \Leftrightarrow Q3 \Leftrightarrow Q5$	AC 3750 V as per EN 60730-1		
Supply external devices (G1)	Voltage	AC 24 V		
	Current	Max. 4 A		
	External supply line protection	see section power supply		
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Interface type         KNX TP1           Bus loading figure         2.5           Bus power supply, can be switched off         25.mA           Power failure of short duration         as per EN 61000-4.11         100 ms with one extension module           Extension bus         Connector specification         4 contacts SELV/PELV           Number of plug-in cycles         Max. 10         Service tool connection facility           Permissible cable lengths         For passive measuing and positioning signals         (Measuring errors can be corrected under the menu "Settings/inputs")           LG-Ni 1000, T1         Max. 300 m         Contact sensing (status and pulse contacts)         Max. 300 m           For DD C10 V measuring and control signals         Vice         Vice         Vice           For KNX bus         Connection service se	Interfaces	KNX bus					
Bus loading figure         2.5           Bus power failure of short duration         25 mA           Power failure of short duration         as per EN 61000-4.1           Extension bus         Connector specification         4 contacts SELV/PELV           Number of plug-in-cycles         Max. 10         Service tool connection facility           Pormissible cable lengths         For passive measuring and positioning signals         (Measuring errors can be corrected under the menu "Settings/inputs")           LG-Ni 1000, T1         Max. 300 m         Contacts ensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m         Contact sensing (status and pulse contacts)         Max. 300 m           Concector terminals         See data sheed of the signaling device         Vice         Vice           For KNX bus         Connection terminals         Spring cage terminals         Spring cage terminals           For wites         Dia. 06 mm		Interface type	KNX TP1				
Bus power supply, can be switched off         25 mÅ           Power failure of short duration         100 ms with one extension module           as per EN 61000-4-11         100 ms with one extension module           Extension bus         4 contacts SELV/PELV           Number of plug-in cycles         Max. 10           Service tool connection facility         RJ45 connector           For passive measuring and positioning signals         (Measuring errors can be corrected under the menu "Settings/inputs")           LG-Ni 1000, T1         Max. 300 m           Protoctive data         Service tool connection signals           For KNX bus         Service at sheet of the signaling de- vice           For KNX bus         Max. 300 m           Connection terminals         Spring cage terminals           For stranded wires with out forcules         0.6 fmm		Bus loading figure	2.5				
Permissible cable lengths         Permissible cable lengths         Permissible cable lengths         For passive measuring and positioning signals         4 contacts SELV/PELV           Number of plug-in cycles         Max. 10         Service to connection facility         R.146 connector           Permissible cable lengths         For passive measuring and positioning signals         (Measuring errors can be corrected under the meu' Settings/inputs')           LG-Ni 1000, T1         Max. 300 m         Connector Sectification         Max. 300 m           For DC 010 V measuring and control signals         Vice         Vice           For DC 010 V measuring and control signals         See data sheet of the signaling device           Connection terminals         Spring cage terminals         For KNX bus           Connection terminals         Spring cage terminals         For stranded wires without ferrules           For stranded wires with ferrules         0.25 2.5 mm <sup>2</sup> For stranded wires with ferrules           Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class 10 EN 60 730         Device suited for use with equipment           Safety class 10 EN 60 730         Device suited for use with equipment           Safety class 10 EN 60 730         Device suited for use with equipment           Gastery class 10 EN 60 730         Device suit		Bus power supply, can be switched off	25 mA				
as per EN 6100-4-11         100 ms with one extension module           Extension bus         Connector specification         4 contacts SELV/FELV           Number of plug-in cycles         Max. 10         Service tool connection facility         RJ45 connector           Permissible cable lengths         For passive measuring and positioning signals         (Measuring errors can be corrected under the menu "Settingsinpuls")           LG-Ni 1000, T1         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Connection terminals         Service core without screening, twisted pair for wires           For DC 0.10 V measuring and control signals         Max. 300 m           Connection terminals         Spring cage terminals           For wires         Dia. 0.6 mm. 2.5 mm <sup>2</sup> <tr< th=""><th></th><th>Power failure of short duration</th><th></th></tr<>		Power failure of short duration					
Electrical connection product specification         4 contacts SELV//PELV           Permissible cable lengths         For passive measuring and positioning signals         (Massuring errors can be corrected Type of signal           Permissible cable lengths         For passive measuring and positioning signals         (Massuring errors can be corrected Type of signal           I_G-Ni 1000, T1         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           Contacts conterminals         Specific contention           For KNX bus         Contacts Contention           Connection terminals         Spring cage terminals           For wires without ferrules         0.25 25 mm <sup>2</sup> For stranded wires with ferrules         0.25 1.5 mm <sup>2</sup> For strande wires with out ferrules         0.25 1.5 mm <sup>2</sup> For without conditions         Class 345           Connection		as per EN 61000-4-11	100 ms with one extension module				
Connector specification 4 contacts SELV/FELV Number of plug-in cycles Max. 10 Service tool connection facility R445 connector For passive measuring and positioning signals (Measuring errors can be corrected Type of signal 1 Max. 300 m Contact sensing (status and pulse contacts) Max. 300 m Contact sensing (status and pulse contacts) Max. 300 m For DC 010 V measuring and control signals See data sheet of the signaling de- vice 2 Corre without screening, twisted pair for switching outputs (O1xQ5x) Max. 300 m Cable type 2-core without screening, twisted pair for switching outputs (O1xQ5x) Max. 300 m Cable type 2-core without screening, twisted pair for switching outputs (O1xQ5x) Max. 300 m Contact sensing (status and pulse contacts) Max. 300 m Cable type 2-core without screening, twisted pair for switching outputs (O1xQ5x) Max. 300 m Connection terminals Spring cage terminals For wires Dia. 0.6 mm2.5 mm <sup>2</sup> For stranded wires without ferrules 0.2515 mm <sup>2</sup> For stranded wires with ferrules 0.2515 mm <sup>2</sup> KNX bus connection fousing to IEC 60 529 IP 20 (when mounted) Safety class to EN 60 730 Device suited for use with equipment disafety class to EN 60 730 Device suited for use with equipment disafety class in EN 60 730 Device suited for use with equipment disafety class side EN 60 730 Class 3X5 Temperature (housing and electronics) U.S		Extension bus					
Number of plug-in cycles         Max. 10           Service to connection facility         RJ45 connector           Permissible cable lengths         For passive measuring and positioning signals         (Measuring errors can be corrected under the menu "Settings/inputs")           I.GNi 1000, T1         Max. 300 m         Secreta the menu "Settings/inputs")           I.GNi 1000, T1         Max. 300 m         Secreta the menu "Settings/inputs")           I.GNi 1000, T1         Max. 300 m         Secreta the menu "Settings/inputs")           I.GNi 1000, T1         Max. 300 m         Contact sensing (status and pulse contacts)         Max. 300 m           Connections         For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For KNX bus         Max. 700 m         Cannet thous creening, twisted pair           Connection terminals         Spring cage terminals         Spring cage terminals           For stranded wires with out ferrules         0.25 15 mm <sup>2</sup> Connection of interchangeable           Protective data         Degree of protection of bousing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class 10         Class 3K5           Temperature (housing and electronics)         059 °C         Class 3M2           Climatic conditions		Connector specification	4 contacts SELV/PELV				
Service tool connection facility         PL45 connector           Permissible cable lengths         For passive measuring and positioning signals         (Measuring errors can be corrected to PL45 connector)           Type of signal Type of signal         Under the menu "Settings/inputs")         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m         Contact sensing (status and pulse contacts)           For DC.0.10 V measuring and control signals         See data sheet of the signaling de- vice         Vice           For NNX bus         Max. 700 m         Cable type         2-core without screening, twisted pair           for switching outputs (Q1xQ5x)         Max. 300 m         Connection terminals           For wires         Dia 0.6 mm		Number of plug-in cycles	Max. 10				
Permissible cable lengths         For passive measuring and positioning signals         (Measuring errors can be corrected under the menu "Settings/inputs")           LG-Ni 1000, T1         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For KNX bus         Max. 700 m           Cable type         2-core without screening, twisted pair           To switching outputs (Q1xQ5x)         Max. 300 m           Connection terminals         Spring cage terminals           For wires         D16.0.6 mm, 2.5 mm <sup>2</sup> For stranded wires with ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 4.5 mm <sup>2</sup> For stranded wires with out ferrules         <		Service tool connection facility	RJ45 connector				
Type of signal         under the menu "Settings/inputs")           LG-Ni 1000, T1         Max. 300 m           P11000         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For KIX bus         Max. 700 m           Cable type         2-core without screening, twisted pair           for switching outputs (Q1xQ5x)         Max. 300 m           Connection terminals         Spring cage terminals           For wires         Dia 0.6 mm2, 5 mm²           For stranded wires with terrules         0.25 1.5 mm²           Class St C N 60 703         Device suited for use with equipment           Safety class I N         Safety class I           Environmental conditions         Class 3K2           Climatic conditions <th>Permissible cable lengths</th> <th>For passive measuring and positioning signals</th> <th>(Measuring errors can be corrected</th>	Permissible cable lengths	For passive measuring and positioning signals	(Measuring errors can be corrected				
LG-Ni 1000, T1         Max. 300 m           P11000         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For CO 010 V measuring and control signals         See data sheet of the signaling de- vice           For Standed Wites         Max. 700 m           Connection terminals         Spring cage terminals           For stranded wires without ferrules         0.25 25 mm²           For stranded wires with ferrules         0.25 15 mm²           For stranded wires with ferrules         0.25 15 mm²           Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Operation to         IEC 60721-3-3           Climatic conditions         Class 3M2           Transport to         Class 3M2           Temperature (housing and electronics)         050 °C           Humidity         <95% r.h. (non-condensing)           Mechanical conditions         Class 3M2           Transport to         IEC 60721-3-2 <th></th> <th>Type of signal</th> <th>under the menu "Settings/inputs")</th>		Type of signal	under the menu "Settings/inputs")				
P11000         Max. 300 m           Contact sensing (status and pulse contacts)         Max. 300 m           For DC 010 V measuring and control signals         See data sheet of the signaling device           Vice         Max. 700 m           Cable type         2-core without screening, twisted pair           for sWitching outputs (Q1xQ5x)         Max. 300 m           Connection terminals         Spring cage terminals           For wires         Dia. 0.6 mm2.5 mm <sup>2</sup> For stranded wires with out ferrules         0.25 1.5 mm <sup>2</sup> For stranded wires with ferrules         0.25 1.5 mm <sup>2</sup> For stranded wires with out for rules         0.25 1.5 mm <sup>2</sup> For stranded wires with out for rules         0.25 1.5 mm <sup>2</sup> For stranded wires with out for rules         0.25 1.5 mm <sup>2</sup> For stranded wires with out for rules         0.25 1.5 mm <sup>2</sup> For stranded wires with out for rules         0.25 1.5 mm <sup>2</sup> Barfey class to EN 60 730         Device suited for use with equipment           Climatic conditions         Class 3K6           Temperature (housing and electronics)         050 °C           Humidity         595% t.h. (non-condensing)           Mechanical conditions         Class 3M2           Temperature		LG-Ni 1000, T1	Max. 300 m				
Contact sensing (status and pulse contacts)         Max. 300 m           For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For KNX bus         Max. 700 m           Cable type         2-core without screening, twisted pair           Contaction terminals         Spring cage terminals           For Wires         Dia 0.6 mm 2.5 mm <sup>2</sup> For stranded wires with terrules         0.25 1.5 mm <sup>2</sup> KNX bus connection         Connections not interchangeable           Protective data         Degree of protection of housing to EC 60529           Device suited for use with equipment of safety class 1         Safety class 100 m           Safety class to EN 60 730         Device suited for use with equipment of safety class 3K5           Transport to         IEC 60721-3-3           Climatic conditions         Class 3K5           Transport to         IEC 60721-3-3           Climatic conditions         Class 3M2           Transport to         IEC 60721-3-2           Class 3M2         Temperature (housing and electronics)           Mechanical conditions         Class 3M2           Class 3M2         Temperature (housing and electronics)           Mechanical conditions         Class 243           Temperature (housing and electronics)		Pt1000	Max. 300 m				
For DC 010 V measuring and control signals         See data sheet of the signaling de- vice           For KNX bus         Max. 700 m Cable type         2-core without screening, twisted pair for switching outputs (Q1xQ5x)         Max. 300 m           Electrical connections         For KNX bus         Dia. 0.6 mm2.5 mm <sup>2</sup> For stranded wires with terrules         0.25 2.5 mm <sup>2</sup> For stranded wires with equipment         0.25 2.5		Contact sensing (status and pulse contacts)	Max. 300 m				
Vice           For KNX bus         Max. 700 m           Cable type         2-core without screening, twisted pair           for switching outputs (Q1xQ5x)         Max. 300 m           Connection terminals         Spring cage terminals           For stranded wires without ferrules         0.25 25 mm <sup>2</sup> For stranded wires without ferrules         0.25 15 mm <sup>2</sup> Por stranded wires with terrules         0.25 15 mm <sup>2</sup> For stranded wires with ferrules         0.25 15 mm <sup>2</sup> Portective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Climatic conditions         Climatic conditions         Climatic conditions           Climatic conditions         Climatic conditions         Class 3K5           Transport to         IEC 60721-3-2         Climatic conditions           Classifications as per EN         Moch of operation, automatic controls         Type 1B           60730         Degree of contamination, control environment         2           Software class         A         A           Raterials and colors         Transport to         Temperature for ball-pressure test of housing         125 °C           Humi		For DC 010 V measuring and control signals	See data sheet of the signaling de-				
For KNX bus         Max. 700 m           Cable type         2-core without screening, twisted pair           for switching outputs (Q1xQ5x)         Max. 300 m           Connection terminals         Spring cage terminals           For stranded wires without ferrules         0.25 2.5 mm <sup>2</sup> For stranded wires with ferrules         0.25 1.5 mm <sup>2</sup> Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class I           Operation to         Class 3K5           Temperature (housing and electronics)         050 °C           Humidity         S95% r.h. (non-condensing)           Mechanical conditions         Class 3M2           Transport to         IEC 60721-3-2           Climatic conditions         Class 2M3           Temperature (housing and electronics)         050 °C           Humidity         S95% r.h. (non-condensing)           Mechanical conditions         Class 3M2           Transport to         IEC 60721-3-2           Classifications as per EN         Mode of operation, automatic controls         Type 1B           60730         Degree of contamination, control environment         2           Software cla			vice				
Cable type         2-core without screening, twisted pair           for switching outputs (Q1xQ5x)         Max. 300 m           Electrical connections         Connection terminals         Spring cage terminals           For wires         Dia. 0.6 mm2.5 mm²         Dia. 0.6 mm2.5 mm²           Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Environmental conditions         Operation to         IEC 60721-3-3           Climatic conditions         Class 3K5         Temperature (housing and electronics)           Mechanical conditions         Class 3K2         Climatic conditions           Classifications as per EN         Mode of operation, control environment         2           60730         Degree of contextrainage         A           Rated surge voltage         4000 V         Temperature for ball-pressure test of housing         125 °C           Materials and colors         Termer         Polycarbonate, RAL 7035 (light-grey)         Polycarbonate, RAL 7035 (light-grey)           Standards, regulations         Easing and colors         Classification catter on the consign and sessements (RoHS compliance, materials composition, packaging, environmental declaration CE 1E3110en_C1*)         The product environmental declaration CE 1E3110en_C**		For KNX bus	Max. 700 m				
Electrical connections         for switching outputs (Q1xQ5x)         Max. 300 m           Connection terminals         Spring cage terminals         Spring cage terminals           For stranded wires without ferrules         0.25 2.5 mm²           For stranded wires with ferrules         0.25 1.5 mm²           Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Environmental conditions         Climatic conditions         Class 3K5           Temperature (housing and electronics)         050 °C           Humidity         S95% r.h. (non-condensing)           Mechanical conditions         Class 3M2           Transport to         Class 3M2           Transport to         Class 3M2           Temperature         -25+70 °C           Humidity         <95% r.h.           Mechanical conditions         Class 2M2           Classifications as per EN         Mode of operation, automatic controls         Type 1B           60730         Degree of contamination, control environment         2           Software class         A         Rated surge voltage         4000 V           Temperature for ball-pressure test of housing         125		Cable type	2-core without screening, twisted pair				
Electrical connections         Connection terminals For wires For stranded wires without ferrules         Spring cage terminals Dia. 0.6 mm 2.5 mm <sup>2</sup> Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class to EN 60 730           Protective data         Operation to         Connections not interchangeable           Environmental conditions         Operation to Class 3K5         Class 3K5           Climatic conditions         Class 3K5         Class 3K5           Temperature (housing and electronics)         050 °C         Humidity           Mechanical conditions         Class 3K5         Temperature           Transport to         IEC 60721-3-2         Climatic conditions           Classifications as per EN         Mode of operation, automatic controls         Type 1B           60730         Degree of contamination, control environment         2           Software class         A         Rated surge voltage         4000 V           Temperature for ball-pressure test of housing         125 °C         Yep 1B           60730         Degree of contamination, control environment         2           Software class         A         Rated surge voltage         4000 V           Temperature		for switching outputs (Q1xQ5x)	Max. 300 m				
For wires     Dia. 0.6 mm     .2.5 mm²       For stranded wires without ferrules     0.25 1.5 mm²       Protective data     Degree of protection of housing to IEC 60 529     IP 20 (when mounted)       Safety class to EN 60 730     Device suited for use with equipment of safety class I       Environmental conditions     Operation to     IEC 60721-3-3       Climatic conditions     Class 3K5       Temperature (housing and electronics)     050 °C       Humidity     595% r.h. (non-condensing)       Mechanical conditions     Class 3M2       Transport to     IEC 60721-3-2       Climatic conditions     Class 3M2       Transport to     IEC 60721-3-2       Climatic conditions     Class 3M2       Transport to     IEC 60721-3-2       Climatic conditions     Class 2M3       Temperature     -25170 °C       Humidity     <95% r.h. (non-condensing)       Mechanical conditions     Class 2M2       Class 2M2     Transport to       Class 2M2     Climatic conditions       Class 2M2     Climatic conditions       Class 2M2     Class 2M2       Materials and colors     Transport to environment       Atted surge voltage     A0       Rated surge voltage     A0       Rated surge voltage     A0	Electrical connections	Connection terminals	Spring cage terminals				
For stranded wires without ferrules         0.25 2.5 mm <sup>2</sup> Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Environmental conditions         Operation to         IEC 60721-3-3           Climatic conditions         Class 3K5         Transport to           Mechanical conditions         Class 3K2         Class 3M2           Transport to         IEC 60721-3-2         Climatic conditions           Climatic conditions         Class 3M2         Class 3M2           Transport to         IEC 60721-3-2         Climatic conditions           Climatic conditions         Class 2K3         Class 2K3           Temperature (housing and electronics)         J.5 S0* C.h.         Homidity           Mechanical conditions         Class 2K3         Class 2K3           Temperature for ball-pressure torols         Type 1B         Degree of contamination, control environment           60730         Degree of contamination, control environment         2         Software class           Materials and colors         terminal base         Polycarbonate, RAL 7035 (light-grey)           Controller insert         Polycarbonate, RAL 7035 (light-grey)         Packaging		For wires	Dia. 0.6 mm 2.5 mm <sup>2</sup>				
For stranded wires with ferrules         0.25 1.5 mm²           KNX bus connection         Connections not interchangeable           Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Environmental conditions         Operation to Climatic conditions         IEC 60721-3-3 Climatic conditions           Mechanical conditions         Class 3K5           Temperature (housing and electronics)         050 °C Humidity           Mechanical conditions         Class 3M2           Transport to         IEC 60721-3-2 Climatic conditions           Class JK3         Temperature Humidity           Mechanical conditions         Class 2K3           Temperature         -25+70 °C           Humidity         <95% r.h.           Mechanical conditions         Class 2M2           Classifications as per EN         Mode of operation, automatic controls         Type 1B           60730         Degree of contamination, control environment         2           Software class         A         Rated surge voltage           Humidity         <95% r.h.         Packaging           Controller insert         Polycarbonate, RAL 7035 (light-grey)           Controller insert         P		For stranded wires without ferrules	0.25 2.5 mm <sup>2</sup>				
KNX bus connection         Connections not interchangeable           Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Environmental conditions         Class 3K5           Climatic conditions         Class 3K5           Temperature (housing and electronics)         050 °C           Humidity         595% r.h. (non-condensing)           Mechanical conditions         Class 3M2           Transport to         IEC 60721-3-2           Climatic conditions         Class 3M2           Transport to         Class 3M2           Temperature         -25+70 °C           Humidity         <95% r.h.           Mechanical conditions         Class 2M2           Mode of operation, automatic controls         Type 1B           60730         Degree of contamination, control environment           Atterials and colors         terminal base           terminal base         Polycarbonate, RAL 7035 (light-grey)           Controller insert         Polycarbonate, RAL 7035 (light-grey)           Packaging         Corrugated cardobard           EU Conformity (CE)         CE173110en_C1*)           The product environmental declaration CE1E3110en02*) contains data		For stranded wires with ferrules	0.25 1.5 mm <sup>2</sup>				
Protective data         Degree of protection of housing to IEC 60 529         IP 20 (when mounted)           Safety class to EN 60 730         Device suited for use with equipment of safety class II           Environmental conditions         Operation to           Operation to         IEC 60721-3-3           Climatic conditions         Class 3K5           Temperature (housing and electronics)         050 °C           Humidity         595% r.h. (non-condensing)           Mechanical conditions         Class 3M2           Transport to         IEC 60721-3-2           Climatic conditions         Class 2K3           Temperature         -25+70 °C           Humidity         <95% r.h.           Mechanical conditions         Class 2M2           Class ifications as per EN         Mode of operation, automatic controls         Type 1B           60730         Degree of contamination, control environment         2           Software class         A         Rated surge voltage         4000 V           Temperature for ball-pressure test of housing         125 °C         Materials and colors         terminal base           EU Conformity (CE)         CE1T3110en_C1*)         Ce1T3110en_C1*)         RCM conformity         Ce1T3110en_C1*)           Rex deging         Corrugated cardboar		KNX bus connection	Connections not interchangeable				
Safety class to EN 60 730       Device suited for use with equipment of safety class II         Environmental conditions       IEC 60721-3-3         Climatic conditions       Class 3K5         Temperature (housing and electronics)       050 °C         Humidity       595% r.h. (non-condensing)         Mechanical conditions       Class 3M2         Transport to       IEC 60721-3-2         Climatic conditions       Class 2K3         Transport to       IEC 60721-3-2         Climatic conditions       Class 2K3         Temperature       -25+70 °C         Humidity       <95% r.h.         Mechanical conditions       Class 2M2         Class ifications as per EN       Mode of operation, automatic controls         Mode of operation, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110en C1*)         The product environmental declaration CE1E3110en02*) contains data	Protective data	Degree of protection of housing to IEC 60 529	IP 20 (when mounted)				
Image: Constraint of the set of		Safety class to EN 60 730	Device suited for use with equipment				
Environmental conditions       Operation to       IEC 60721-3-3         Climatic conditions       Class 3K5         Temperature (housing and electronics)       050 °C         Humidity       595% r.h. (non-condensing)         Mechanical conditions       Class 3M2         Transport to       Class 3M2         Classifications as per EN       Mode of operation, automatic controls         60730       Mode of operation, automatic controls         Degree of contamination, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       Euronal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         Standards, regulations       EU Conformity (CE)       CE1T3110en_C1 *)         RCM conformity (CE)       CE1T3110en_C1 *)       The product environmental declaration CE1E3110en02 *) contains data on environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg			of safety class II				
Climatic conditions     Class 3K5       Temperature (housing and electronics)     050° °C       Humidity     595% r.h. (non-condensing)       Mechanical conditions     Class 3M2       Transport to     IEC 60721-3-2       Climatic conditions     Class 2K3       Temperature     -25+70 °C       Humidity     <95% r.h.       Mechanical conditions     Class 2K3       Temperature     -25+70 °C       Humidity     <95% r.h.       Mechanical conditions     Class 2M2       Classifications as per EN     Mode of operation, automatic controls       60730     Degree of contamination, control environment       2     Software class     A       Rated surge voltage     4000 V       Temperature for ball-pressure test of housing     125 °C       Materials and colors     Euf conformity (CE)       Standards, regulations     EU Conformity (CE)       CeliT3110en_C1*)     The product environmental declaration CE1E3110en02*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).       Weight     Excl. packaging     0.49 kg	Environmental conditions	Operation to	IEC 60721-3-3				
Temperature (housing and electronics)       050 °C         Humidity       595% r.h. (non-condensing)         Mechanical conditions       Class 3M2         Transport to       IEC 60721-3-2         Climatic conditions       Class 2K3         Temperature       -25+70 °C         Humidity       <95% r.h.         Mechanical conditions       Class 2M2         Classifications as per EN       Mode of operation, automatic controls       Type 1B         60730       Degree of contamination, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110ax *)         RCM conformity       CE1T3110en_C1 *)         The product environmental declaration CE1E3110en02 *) contains data on environmental benefit, disposal).       0.49 kg		Climatic conditions	Class 3K5				
Humidity       595% r.h. (non-condensing) Class 3M2         Transport to       IEC 60721-3-2         Climatic conditions       Class 2K3         Temperature       -25+70 °C         Humidity       <95% r.h.         Mechanical conditions       Class 2M2         Class 2M2       Mode of operation, automatic controls         Mechanical conditions       Class 2M2         Class 2M2       Mode of operation, automatic controls         Degree of contamination, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx *)         RCM conformity       CE1T3110en_C1 *)         The product environmental declaration CE1E3110en02 *) contains data on environmental benefit, disposal).       0.49 kg		Temperature (housing and electronics)	050 °C				
Mechanical conditions     Class 3M2       Transport to     IEC 60721-3-2       Climatic conditions     Class 2K3       Temperature     -25+70 °C       Humidity     <95% r.h.       Mechanical conditions     Class 2M2       Classifications as per EN     Mode of operation, automatic controls     Type 1B       60730     Degree of contamination, control environment     2       Software class     A       Rated surge voltage     4000 V       Temperature for ball-pressure test of housing     125 °C       Materials and colors     terminal base     Polycarbonate, RAL 7035 (light-grey)       Controller insert     Polycarbonate, RAL 7035 (light-grey)       Packaging     Corrugated cardboard       EU Conformity (CE)     CE1T3110en_C1 *)       The product environmental declaration CE1E3110en02 *) contains data on environmentall benefit, disposal).       Weight     Excl. packaging     0.49 kg		Humidity	595% r.h. (non-condensing)				
Transport toIEC 60721-3-2Climatic conditionsClass 2K3Temperature-25+70 °CHumidity<95% r.h.Mechanical conditionsClass 2M2Classifications as per ENMode of operation, automatic controls60730Degree of contamination, control environment2Software classARated surge voltage4000 VTemperature for ball-pressure test of housing125 °CTemperature for ball-pressure test of housing125 °CMaterials and colorsEU Conformity (CE)Standards, regulationsEU Conformity (CE)CeltastingCorrugated cardboardEU Conformity (CE)CEltT3110en_C1*)The product environmental declaration CE1E3110en02*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).WeightExcl. packaging0.49 kg		Mechanical conditions	Class 3M2				
Climatic conditionsClass 2K3 TemperatureTemperature-25+70 °C -25+70 °CHumidity<95% r.h.Mechanical conditionsClass 2M2Class 2fdMode of operation, automatic controlsType 1B60730Degree of contamination, control environment2Software classARated surge voltage4000 VTemperature for ball-pressure test of housing125 °CMaterials and colorsTemperature for ball-pressure test of housingCorrugated cardboardController insertPolycarbonate, RAL 7035 (light-grey)PackagingCorrugated cardboardBut Conformity (CE)CE1T3110xx*)RCM conformity (CE)CE1T3110en_C1*)The product environmental declaration CE1E3110en02*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).WeightExcl. packaging0.49 kg		Transport to	IEC 60721-3-2				
Temperature       -25+70 °C         Humidity       <95% r.h.         Mechanical conditions       Class 2M2         Classifications as per EN       Mode of operation, automatic controls       Type 1B         60730       Degree of contamination, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx *)         RCM conformity       CE1T3110en_C1 *)         The product environmental declaration CE1E3110en02 *) contains data on environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg		Climatic conditions	Class 2K3				
Humidity       <95% r.h. Class 2M2         Classifications as per EN 60730       Mode of operation, automatic controls       Type 1B         Degree of contamination, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110en_C1*)         RCM conformity       CE1T3110en_C1*)         The product environmental declaration CE1E3110en02*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg		Temperature	−25+70 °C				
Mechanical conditions       Class 2M2         Classifications as per EN       Mode of operation, automatic controls       Type 1B         60730       Degree of contamination, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx*)         RCM conformity       CE1T3110en_C1*)         The product environmental declaration CE1E3110en02*) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg		Humidity	<95% r.h.				
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60730       Degree of contamination, control environment       2         Software class       A         Rated surge voltage       4000 V         Temperature for ball-pressure test of housing       125 °C         Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx *)         RCM conformity       CE1T3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg	Classifications as per EN	Mode of operation, automatic controls	Туре 1В				
Software classARated surge voltage4000 VTemperature for ball-pressure test of housing125 °Cterminal basePolycarbonate, RAL 7035 (light-grey)Controller insertPolycarbonate, RAL 7035 (light-grey)PackagingCorrugated cardboardEU Conformity (CE)CE1T3110xx *)RCM conformityCE1T3110en_C1 *)The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).WeightExcl. packaging0.49 kg	60730	Degree of contamination, control environment	2				
Rated surge voltage4000 VTemperature for ball-pressure test of housing125 °Cterminal basePolycarbonate, RAL 7035 (light-grey)Controller insertPolycarbonate, RAL 7035 (light-grey)PackagingCorrugated cardboardEU Conformity (CE)CE1T3110xx *)RCM conformityCE1T3110en_C1 *)The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).WeightExcl. packaging0.49 kg		Software class	A				
Materials and colors       Temperature for ball-pressure test of housing       125 °C         Materials and colors       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx *)         RCM conformity       CE1T3110en_C1 *)         The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg		Rated surge voltage	4000 V				
Materials and colors       terminal base       Polycarbonate, RAL 7035 (light-grey)         Controller insert       Polycarbonate, RAL 7035 (light-grey)         Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx *)         RCM conformity       CE1T3110en_C1 *)         The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg		Temperature for ball-pressure test of housing	125 °C				
Standards, regulations       Controller insert       Polycarbonate, RAL 7035 (light-grey)         Standards, regulations       Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx *)         RCM conformity       CE1T3110en_C1 *)         The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg	Materials and colors	terminal base	Polycarbonate, RAL 7035 (light-grey)				
Standards, regulations       Packaging       Corrugated cardboard         EU Conformity (CE)       CE1T3110xx *)         RCM conformity       CE1T3110en_C1 *)         The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).         Weight       Excl. packaging       0.49 kg		Controller insert	Polycarbonate, RAL 7035 (light-grey)				
Standards, regulations     EU Conformity (CE)     CE1T3110xx *)       RCM conformity     CE1T3110en_C1 *)       The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).       Weight     Excl. packaging     0.49 kg		Packaging	Corrugated cardboard				
RCM conformity     CE1T3110en_C1 *)       The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal).       Weight     Excl. packaging     0.49 kg	Standards regulations	FU Conformity (CF)	CF1T3110xx *)				
Weight       Excl. packaging		RCM conformity	CE1T3110en_C1*)				
Weight       Excl. packaging		The product environmental declaration CE1E3110en02 *) contains data on environmentally compatible					
Weight         Excl. packaging         0.49 kg		ne product environmental declaration of itor itoritory (Company) contains data on environmentaling compatible					
Weight         Excl. packaging         0.49 kg		henefit disposal)	tenais composition, packaging, environmental				
Weight C. Hondying 0.40 kg		Excl packaging	0.49 kg				
	weight		0.10 %9				

\*) The documents can be downloaded from <u>http://siemens.com/bt/download</u>.

#### **Connection diagrams**

Internal diagrams	G X1	M X2 M G1 X	3 M X4 M G1 X	5 M X6 M	▲ M G1	Q11	Q23	Q33	Q53
	G0 G1	Y1G0 G1Y2G0	CE+ CE-		Q12	Q14	Q24	Q34	Q54
	Ă ¥	★ ' ★ ★ '	VA VA		<b>V</b>	<b>V</b>	▼	V	V
Кеу	G, G0 G1 M G0 X1X6	AC 24 V rated vo Output voltage A Measuring neutra System neutral fo Universal signal i LG-Ni 1000, 2x L pulse contact se	oltage IC 24 V to power ex al for signal input or signal output inputs for IG-Ni 1000 (averag ensing (potential-fre	tternal, active ing), T1, Pt 1 e)	e unit 000, DC	010 V,			
	Y1Y2 Control or status outputs, analog DC 010 V Q Potential-free relay outputs for AC 24230 V.								
	CE+ CE-	KNX bus data lin KNX bus data lin	ie, positive ie, negative						
Notes	Each te	erminal (spring	cage terminal)	can only a	accomm	odate	one so	lid wire	or one

Each terminal (spring cage terminal) can only accommodate one solid wire or one stranded wire. Double terminals are internally interconnected.

# **Connection diagrams** Examples:

Connections on the measuring side

Connection diagram 1: Measuring section with passive sensor



For external supply line protection, see specification in technical data.

Connection diagram 2: Measuring section with active sensor



For external supply line protection, see specification in technical data.

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Connections on the control and monitoring side Connection diagram 3: Multiple use sensors (B1, N2) and output of the resulting operating mode from a room group to other units (N3) – For required internal configuration, see basic document CE1P3122en –, "Digital input" (S6).



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For external supply line protection, see specification in technical data.

Key to connection dia-	N1	Central control unit RMB795B	B1	Duct temperature sensor QAM21.20
	N2	Universal controller RLU220	B3	Duct temperature sensor QAM2161.040
grams 1 through 3	N3	Universal controller RLU232	S6	HC operating mode changeover, manual

#### Dimensions



Dimensions in mm

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# Subject to change

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