

Lighting Control Catalogue

Issue: May 2009



Make the most of your energy

Schneider
Electric

More than just Lighting Control



TAC LIGHTING SOLUTIONS GIVES YOU MORE THAN JUST LIGHT CONTROL

Lighting Control Solutions, delivered as part of an integrated building management system from TAC, are a key tool in controlling energy use inside your buildings.

A lighting control system allows for flexibility in the utilisation of internal space. Regular and rapid changes in the use of buildings, and increasing expectations regarding comfort and performance, mean that lighting installations must be able to evolve to meet the requirements of an expanding business, or be easily adapted to suit new tenants.

Lighting Solutions from TAC and its partners meet the needs of building users and owners by:

- reducing installation and operating costs
- providing greater flexibility in the use of building space
- helping building owners meet legal and building performance regulations.

GLOBAL LEADER IN BUILDING IT

TAC is a leading provider of building automation solutions based on Open Integrated Systems for Building IT. TAC's mission is to provide added value through building environment services for indoor climate, security and use of energy, delivered with advanced technology to end users and property owners throughout the world.

With over 80 years of experience in the HVAC, building automation and security arenas, TAC employs more than 8,000 people worldwide, with partners and branches in 80 countries. TAC's parent company, Schneider Electric, is the global specialist in energy management with 120,000 employees worldwide and operations in 102 countries.

For further details of the products featured in this catalogue, consult the relevant documentation on the TAC extranet, ExchangeOnline at <http://extranet.tac.com/> (registration requirement applies) or contact your local TAC sales office.

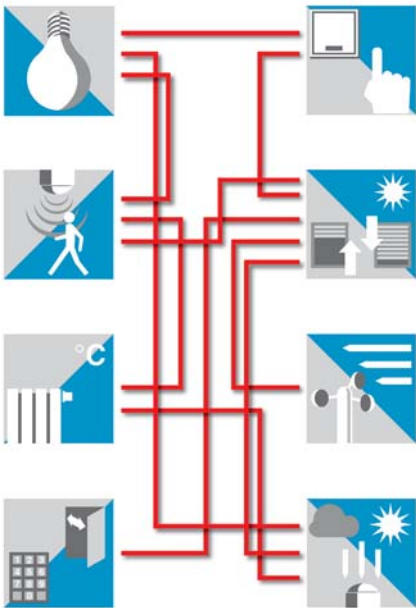
www.tac.com



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Buildings evolve and are transformed over decades. They need flexible systems that are designed to adapt to changing technologies and user demands. That is why the choice of a communications bus system such as LON is of such long-term importance.

LON-based building management systems provide tremendous advantages to everyone involved:

Architects:

- The technical demands on building systems can be satisfied in a simpler, more flexible and cost-effective way.
- Control and display devices with bus capability combine all the functions of the different installation systems and at the same time provide a visually appealing design.

Builders and Operators:

- A cost-effective installation
- A high degree of flexibility, and financial savings, when the installation needs to be retrofitted or modified
- Reduction of operating costs by intelligent facility management
- “Transparency” of buildings by centralised annunciation, control and monitoring

- Standardised and easily comprehensible operation of the facilities
- Reduction of maintenance and service costs

Planners and Installers:

- Prevention of installation and planning mistakes thanks to an easy and comprehensible installation procedure
- Lower installation costs, in comparison to isolated solutions
- Facilitates compliance with regulations by reducing the risk of fire
- Reduced production costs due to the multiple use of sensors and the elimination of expensive gateway solutions for data exchange between individual systems
- Reduced training costs

TAC Lighting Control Solutions

APPLICATIONS

The use of an intelligent building system is particularly recommended for buildings which require an optimised installation in terms of maximum flexibility and comfort, combined with minimum additional cabling, e. g. in banks and building societies, office and administration buildings, hospitals, hotels, department stores, industrial warehouses, schools etc.

Light and sunblind control is a important part of the system as it represents a major part of the potential energy savings.

LIGHT CONTROL

Lighting units may be controlled both centrally and locally. The light can be dimmed or switched at predetermined times. In addition, it can be made dependent on indoor or outdoor brightness levels and whether the building – or a given area of the building – is currently occupied or not, so that the presence or absence of building users so that energy and operating costs are reduced.

Scene control provides the opportunity to store brightness levels, and of retrieving the settings via push buttons or an IR remote control as often as required, making it possible to operate any lighting scene within seconds.

SUNBLIND CONTROL

Sunblinds can similarly be controlled both centrally and locally. Wind, rainfall and temperature sensors detect the weather conditions, and drive the outdoor venetian blinds automatically into a safe position if required. Via scene control, the sunblinds can adopt a preset position with one key press. The automatic panel adjustment function calculates the current sun position depending on date, time and location of the building, and adjusts the panels in such a way that optimum transparency and antiglare protection are provided at any time. In addition, sunblind control can be combined with HVAC control. According to the incident solar radiation and the particular room temperature, the blinds are lowered to avoid overheating.



Automating energy efficiency



There are different possibilities to equip buildings so that they can be run in an energy-saving manner. Building automation, and especially room automation, offers high energy saving potential.

FUNCTIONS FOR SAVING LIGHTING ENERGY

The functions for saving lighting energy avoid unnecessary use of artificial lighting and thus save electricity. They are based mainly on the room conditions "level of light in room" and "presence".

CONSTANT LIGHT CONTROL

Multi-function sensors determine the brightness of the room and whether it is occupied. They transmit their data to dimmer actuators. If the room is not being used, the lighting stays off. If the room is being used, the dimmer actuators adjust the lighting to a precisely defined level of brightness. The energy savings are especially high if the room is well supplied with daylight, or if its use requires a high level of lighting. The savings potential is between 35 and 50 percent.

BRIGHTNESS-DEPENDENT LIGHTING CONTROL

This function basically corresponds to constant light control. Since switchable light actuators are used instead of dimmer actuators, the lighting level cannot be exactly set to the minimum level. For that reason, the energy savings potential is about 10 percent less than for constant light control, and is no higher than 45 percent.

PRESENCE-DEPENDENT LIGHTING CONTROL

This function is used to save lighting energy in areas with insufficient daylight. The saving effect is achieved having the lighting controlled by presence/ movement detectors, which only turn on the lighting when the room is occupied. The saving potential depends, therefore, primarily on the level of use.

SUNBLIND CONTROLLED BY THE POSITION OF THE SUN (SUN AUTOMATIC SYSTEM)

Controlling the sunblind according to the position of the sun (also known as the sun automatic system) ensures that the sunblind automatically moves to a defined shield position when strong solar radiation is present. As soon as the intensity of the sunshine lessens, it is moved back. The savings are attributable particularly to the fact that automatic control is more effective than manual control. This reduces the need for artificial light. The savings potential is between 5 and 8 percent.

SLAT TRACKING

The "slat tracking" function ensures that the sunblind slats automatically adjust to the position of the sun. In this way, the diffuse daylight that shines through the blinds can be used. At the same time, the proportion of artificial light can be reduced, the "slat tracking" function makes lighting energy savings of 10 to 13 percent possible.

INTERACTION BETWEEN SLAT TRACKING AND CONSTANT LIGHT CONTROL

An integrated system permits functions such as slat tracking and constant light control to be used together and in coordination. This combination is especially advisable in rooms with a good supply of daylight. The savings here can be up to 30 percent.

INTEGRATED ROOM AUTOMATION SYSTEM

A precondition for the optimal effectiveness of all functions is an integrated room automation system, in which the different systems such as heating, cooling or glare shield work in unison. In an integrated room automation system, the sensors provide the information for all the systems, while actuators and the lighting, heating, and cooling systems, provide simultaneous support.

PLANNING AND CONFIGURATION OF AN ENERGY SAVING ROOM AUTOMATION SYSTEM

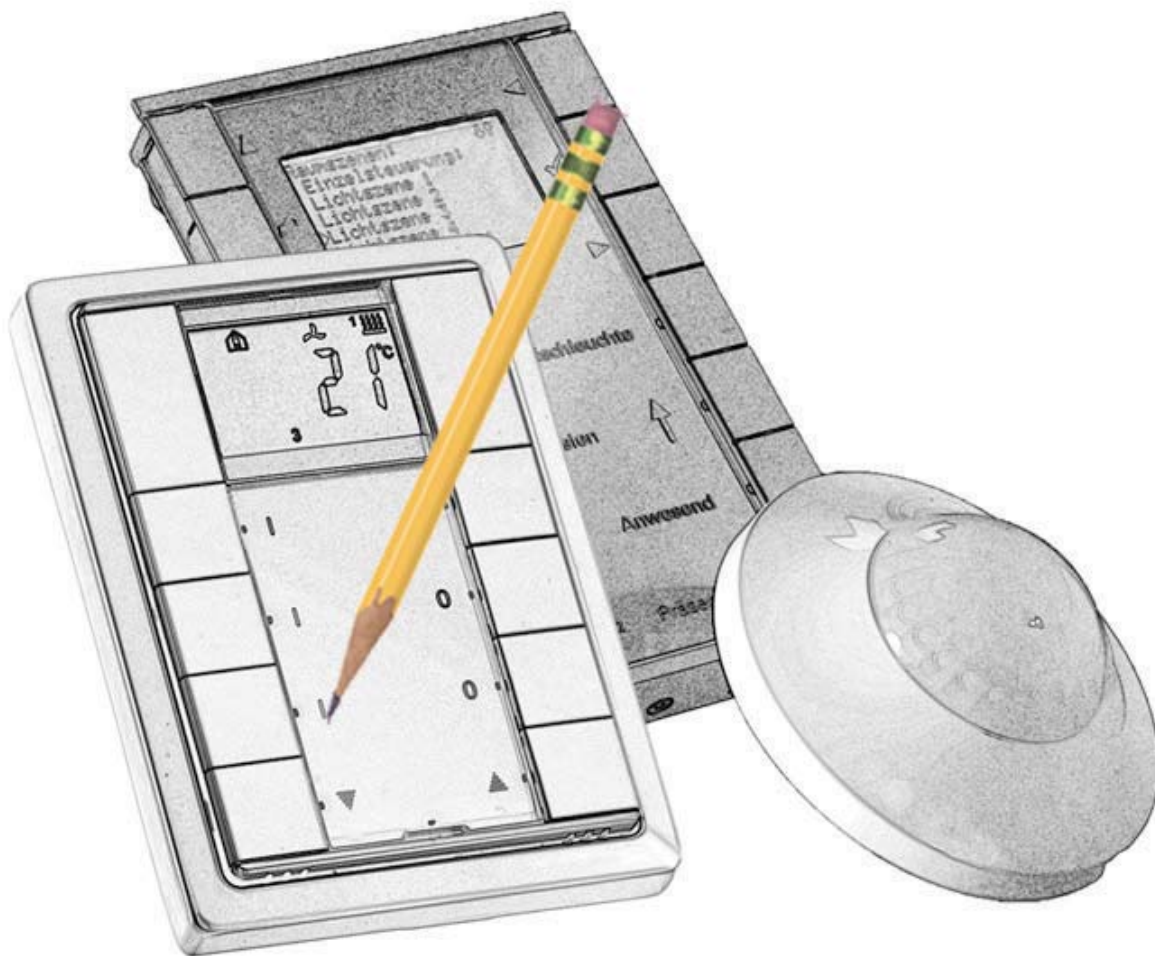
The planning and configuration of an energy saving room automation system is simplified by the fact that the room automation system functions conform to the Lonmark profiles used around the world. With this system, room automation functions can be described clearly and comprehensively.

Once the desired room automation functions have been selected, the savings potential of the particular room automation solution can be determined, and the chosen solution can be configured with devices.

Functions for saving lighting energy		
Room Automation Functions	Savings	Positive factors
Constant light control (presence-dependent, dimmed)	35 - 50%	- good daylight supply - high lighting levels (>300lux) - particularly efficient with slat control
Presence and brightness-dependent lighting control (switched)	25 - 45%	- good daylight supply - high lighting levels
Automatic sun protection system	5 - 8%	- good daylight supply
Slat adjustment	10 - 13%	- good daylight supply - particularly efficient with constant light control
Automatic lighting or staircase lighting	No information	- low presence levels (e.g. corridors)



Design Programme



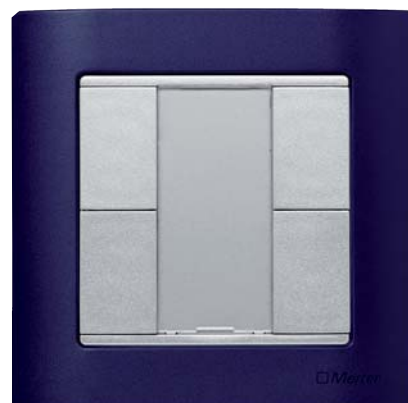
Open building control systems provide synergy effects between the individual systems. The functions of various individual installation systems are combined in one device. Previous light switches, thermostats and sunblind controls of different sizes, designs and colours are replaced by a single control and display device, by means of which all the room functions mentioned can be controlled.

LON-interfaced Control Panels combine the performance capability of LON a timeless, unobtrusive design. Clearly arranged keys, lettering areas and displays, allow the user to control the lighting, venetian blinds, heating, ventilation and other devices in the room effortlessly.

We offer a range of aesthetically appealing products including System-M.

System-M comprises ten modules – from a 1-gang push button to occupancy detector. Each is available in five colours. These modules can be combined with 27 different frames.

The ARTEC Program is timeless in design, with a clean, flush-fitting profile. It satisfies the demands of modern architecture, and is suitable for many different locations. Its premium stainless steel design provides the ideal surface for subtle but highly visible lettering.



Room Control Unit



Room Control Units RCU-61 and RCU-101 are a combination of a temperature controller and a multi-function push button with display. The RCU-61 includes six, and the RCU-101 ten, large push buttons; either can be adapted to different individual functions.

Two push buttons each are reserved for temperature control.

The Room Control Units can control any operating resource installed in a room, either individually or in scenes, by a single device:

- Lighting and sunblinds
- Heating, air conditioning and ventilation



In addition, Room Control Unit RCU-101 can be activated by a remote control device which is available separately

All design modules consist of application modules, frame and LON BUS Coupling Unit. (the "LON-BCU").

The LON-BCU is available individually for the use of EIB-application modules in LON networks such as

- Push Buttons
- Temperature Controllers
- Motion detectors

from the product ranges of manufacturers such as Berker, Feller, Gira, Jung, Merten and Siemens.

Besides a broad variety of application modules, our third generation of LON Bus Coupling Units features low power consumption. It utilises link power technology, taking the power needed to operate from the LON network. No additional power supply is required.

As with the standard modules, configuration is made with an LNS plug-in. All applications comply with the relevant LonMark standards.



LON I/O Modules



TAC Lighting Control Solutions cover a wide range of functions, including

- Digital Inputs for 24 V and 230 V input voltage, and for floating contacts
- Analog inputs and outputs
- Switching actuators with 24 V semiconductor outputs
- Switching actuators with relay outputs
- Phase controlled dimmers 1-10 V control devices for dimmable electronic ballasts
- LON DALI-Controllers for control of electronic DALI components

Most of the devices are suitable for DIN rail mounting. These devices are sub-classified into the three product lines M, N and S.

Cables can be attached to the inputs and outputs of most devices in the M, N, and S product range by use of pluggable screw-type terminals. They can be quickly and easily replaced when the need arises.

This provides protection against polarity reversal – should the device be replaced – and against accidental contact at any time.

Clamp-type terminals allow up to four bus cables to be connected to the device, so that the line is not interrupted if a device is disconnected from the network.

Power lines and bus cables may be installed without spacing. Single insulated wires or power lines and bus cables either have to be installed with a spacing of 4 mm or they need an appropriate insulation (DIN VDE 01 10-1). A protective cap is included with the REG-M and REG-N modules, by means of which a clear separation of power line and bus cable is guaranteed.

The “DR-N” product line is the latest generation of I/O modules with the following features:

- Bus connection via 2-pin bus terminal with protective cap
- Pluggable screw-type terminals for inputs and outputs
- Status LED for every input and output
- Manual operation
- Free-Topology-Transceiver (FTT)
- DC 18...30 V supply voltage
- Configurable reaction of the outputs to power-down and power-up/reset

The “DR-M” product line consists of about 20 I/O modules with the following distinctive features:

- Bus connection via 2-pin bus terminal with protective cap
- Pluggable screw-type terminals for inputs and outputs
- Link Power Transceiver (LPT)



Due to Link-Power-technology, both data and the supply voltage for the control electronics can be transmitted via the LON network. Particularly, if the I/O modules are applied peripherally the complexity of cabling is minimised. LPT devices can be operated in combination with FTT devices in one subnet, but then they require an extra LON Power Supply

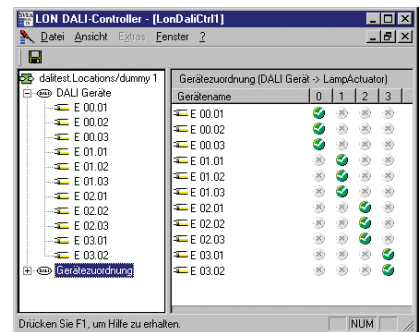
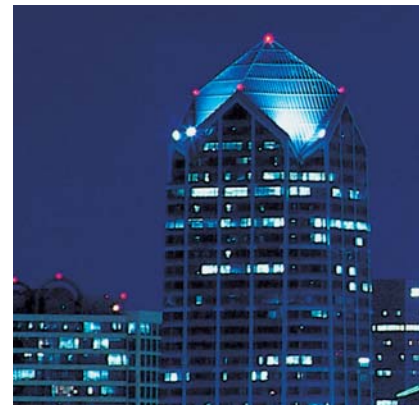
The "DR-S" product line includes, in addition to the DALI Controllers, four I/O modules with the following characteristics:

- Four resp. eight outputs and the same number of inputs for consumer loads and drives
- Status LED for every input and output
- Manual operation
- Pluggable screw-type terminals
- Free Topology Transceiver (FTT)
- 230 V supply voltage
- Configurable reaction of the outputs to power-down and power-up/reset

Conventional push buttons are normally connected to the digital inputs to operate the consumer loads at the outputs. Apart from that, the digital inputs can be used for floating contacts, e.g. of motion detectors, photo-electric lighting controllers, or thermostats, independently of the outputs. The contact current is approx. 10 mA. The contact voltage of about 24 V is generated by the device itself, so that no external power supply unit is required. Every input status, as well as the output states, is indicated by a status LED. Every output can be operated manually, using the push buttons on top of the casing.

All cables can be connected to the device using pluggable screw-type terminals. The REG-S modules are some of the few LON actuators that provide the opportunity to configure the outputs' reaction to power-down as well as to power-up/reset.

DALI Controller



In many fields of application, dimmable lighting systems are becoming more and more important. The previous gap in communication existing between the LON network and the lamps is closed by DALI. This Digital Addressable Lighting Interface is a standardised interface for electronic ballasts developed by the leading European manufacturers.

By means of ballast addresses, the lamps of up to 64 DALI ballasts can be switched and dimmed individually via a common data line – without the usual brightness gradient due to the resistance of the control line.

The DALI ballasts can be divided into up to 16 groups. Every ballast provides 16 scene memory units for light levels so particular atmospheres can be recalled directly.

LON DALI Controllers DR-S 4DIM, 8DIM and 16DIM allow independent control of four, eight or 16 lighting groups respectively, according to the LonMark

profiles. In addition, they provide the scene control of the DALI devices. Different characteristic curves of dimmable electronic ballasts from various manufacturers are conformed to automatically.

The LON DALI Controllers are DALI system devices. They control all DALI ballasts and connected DALI multisensors, and provide an interface between LON and the DALI bus. By use of the familiar LNS plug-in, the controllers can be configured and the DALI devices can be integrated completely in the LON bus system. Neither special accessory devices, nor software, are required.

The electronic DALI ballasts communicate bi-directionally, i.e. they can propagate their current state to other DALI devices. In combination with the appropriate equipment, lamps can announce failures to the LON DALI Controller. The latter transmits the message via the LON network to a building management

centre or via a LON TCP/IP gateway to any other place in the world.

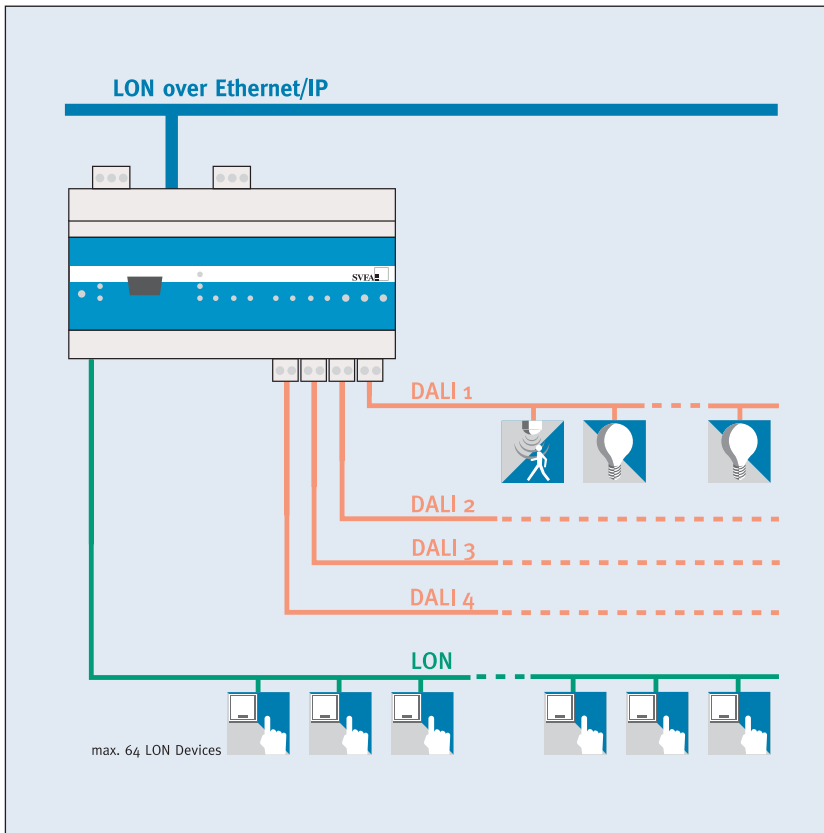
Up to 256 devices, divided into 64 DALI groups, can be connected to the LON DALI Gateway REG 4x16 DIM with four DALI control lines.

In addition to the DALI connections, the gateway also has a LON Twisted-Pair interface with Free Topology Transceiver, as well as an Ethernet interface.

The TP/FT interface is intended for connection of up to 64 LON control units via an Ethernet interface. The LON DALI Gateway usually communicates with a superior light management or building automation system by means of LON over IP, via an Ethernet interface. Other DALI Gateways are also being addressed in this way.

By means of the integrated Ethernet interface, a hierarchically very even but powerful interface, network structure emerges without IP-gateways.

DALI Gateway



Normally initiation is also carried out via an Ethernet interface. The setting of all internal parameters and configurations can be carried out by an LNS-independent configuration tool.

For constant light control and scene control, all relevant LonMark objects, such as "Lamp Actuator", "Constant Light Controller", "Occupancy Controller" and "Scene Controller" are available freely configurable, in virtually unlimited quantities. The common restrictions with LON devices, for example the limitation of 15 address table entries, no longer exist. The LON DALI Gateway can also be connected to the DALI LA-11 Multisensor.

The DALI Multisensor is a combination occupancy and light sensor.

For the first time, a cost-effective solution for creating an intelligent lighting control, as well as its integration into building automation, is offered by LON DALI Controllers, respectively by a LON DALI Gateway, in combination with the DALI Multi-sensor.

Multisensors



A demand-responsive single room control helps to save up to 70 percent of energy on lighting, heating and ventilation. To enable this, it is necessary, among other things to detect brightness and presence in the room.

Based on passive infrared technology, the LA-21 and ILA-22 LON multi-sensors are designed for presence-dependent lighting control.

Installed at a height of 2.5 m, these multi-sensors detect movement in a circular range of 14 m

The integrated light sensor is designed for daylight-dependent lighting control. Combined with the constant light controller objects of the dimmers, the 1-10 V control outputs or the DALI controllers, a cost-effective solution can be achieved.

The ILA-22 multi-sensor possesses an additional IR receiver. Combined with the remote control, it is possible to control scenes and sunblinds in addition to dimming and switching the lighting. The multi-sensors feature a LON interface with a link-power transceiver, and can therefore be connected directly to a LON network. A further auxiliary supply is not required.

The multi-sensors are particularly suitable for installation in single and open-plan offices, foyers, stairways, class-, conference- and meeting rooms.

Temperature Control



For single room temperature control, all sensors, actuators and the operating unit are combined with a central control unit in a star topography. This approach has many disadvantages:

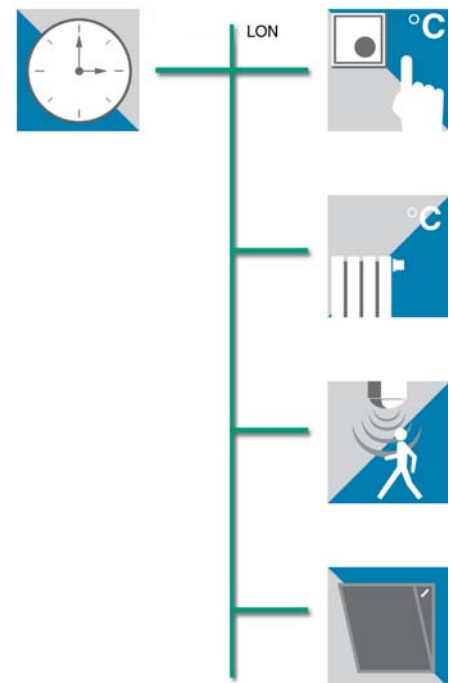
- Extensive cabling between the devices
- Inflexibility due to fixed wiring
- Additional space is required for the control unit and cables
- The design of the control unit does not match the other switches and sockets.

Alternatively, the following approach can be adopted: the temperature sensor and the operating and control unit are integrated in one bus device ("Temperature Controller"). The controller transmits the manipulated variable via the LON network to an actuator (e. g. art. no. 62301-233) mounted on a cooling or heating battery in the ceiling void, which converts the command into a corresponding valve movement. Floating contacts, e. g. of architrave-type switches at the windows, or dew point sensors can be connected directly to the digital inputs of the valve actuator.

The following advantages result from decentralised room control:

- Simple and cost-effective cabling
- High flexibility in case of alterations or extensions
- The controller is available in all versions and designs.

Besides the LON network, only a temperature controller incl. LON Bus Coupling Unit, and at least one LON valve actuator (or other actuator) is required. This combination can be retrofitted by an occupancy sensor or a system clock. Via the LON network, the decentral single room control can be linked to other installation systems, such as lighting, sunblind or access control.



TAC Lighting Products

Product Section 1

All the TAC Lighting products published in this catalogue are produced by Schneider Electric.

The products, including software and documentation, shown in the first section of this publication are all entirely Schneider branded.

The products in the latter section of this catalogue are SVEA or Merten branded and will be re-launched under the Schneider brand in due course. Please note that the SVEA/Merten branded products are fully compatible with the Schneider branded items.

System Components



POWER SUPPLY LPS 133
MTN884019
Available in Q2 2009



- power supply for devices with Link Power Transceivers
- rated output current:
 - 1 A (short-circuit- and overload-proof) if supply voltage 85 V .. 195 V
 - 1.3 A (short-circuit- and overload-proof) if supply voltage > 195 V
- max. continuous output current: 1.3 A if supply voltage > 195 V
- bus power monitoring via relay output
- adjustable bus terminator for free or line topology or without termination
- supply voltage: AC 120/230 V (AC 85 .. 264 V)
- DIN rail mounting according to EN 50 022
- width of device: approx. 144 mm (8 pitch)



BUS COUPLING UNIT UP
MTN880451



- base module for flush-mounted LON devices and interface between EIB compatible application modules and LON network
- screw fixing in flush-mounted boxes
- software applications according to LonMark profile "Switch (3200)" and "Scene Panel (3250)" to translate the signals of the connected application modules (push buttons, motion detectors, temperature controllers, etc.) into messages for light, sunblind, occupancy and single room temperature control

A list of the supported application modules can be found on ... can be found on ExchangeOnline/Product zone/Field device Europe/Lighting Control.

Panels

LON ARTEC PUSH BUTTON 1-GANG

MTN880701

polar white glossy

MTN880711

stainless steel

- application module in Merten ARTEC design
- two push buttons for individually assigned functions
- one status LED
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Occupancy Sensor (1060)" for light, sunblind or scene and occupancy control

To be completed with a LON Bus Coupling Unit UP (MTN88045) and a frame in the favoured colour.



LON ARTEC PUSH BUTTON 2-GANG

MTN880721

polar white glossy

MTN880731

stainless steel

- application module in Merten ARTEC design
- four push buttons for individually assigned functions
- two status LEDs
- other features as per LON ARTEC Push button 1-gang (art. no. MTN880701)

To be completed with a LON Bus Coupling Unit UP (MTN88045) and a frame in the favoured colour.



LON ARTEC PUSH BUTTON 4-GANG

MTN880741

polar white glossy

MTN880751

stainless steel

- application module in Merten ARTEC design
- eight push buttons for individually assigned functions
- four status LEDs
- other features as per LON ARTEC Push button 1-gang (art. no. 880701)

To be completed with a LON Bus Coupling Unit UP (MTN88045) and a frame in the favoured colour.



LON ARTEC ROOM CONTROL UNIT RCU-61

MTN880901

polar white glossy

MTN880911

stainless steel

- application module with display in Merten ARTEC design
- backlit LC display
- four push buttons for individually assigned functions with a status LED for each push button
- two push buttons for setpoint adjustment and configuration of the display functions
- continuous action controller for heating and cooling incl. integrated temperature sensor
- calculates manipulated variables from setpoint and actual temperature values according to the particular operation mode
- can control valves or switching actuators in combination with an electro-thermal control valve
- two different setpoints for heating and cooling
- display to indicate room temperature and operation modes as per comfort, standby, night
- degree of protection: IP 20
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Thermostat (8060)" for light, sunblind or scene and room temperature control

To be completed with a LON Bus Coupling Unit UP (MTN88045) and a frame in the favoured colour.





LON ARTEC ROOM CONTROL UNIT RCU-101
 MTN880921
 polar white glossy
 MTN880931
 stainless steel



- application module with display in Merten ARTEC design
- eight push buttons for individually assigned functions with a status LED for each push button
- IR receiver for control of the button functions via IR Remote Control (art. no. 42083-107)
- Piezo buzzer to indicate warnings or alarms
- other features as per LON ARTEC Room Control Unit RCU-61 (art. no. MTN88090)

To be completed with a LON Bus Coupling Unit UP (MTN88045) and a frame in the favoured colour.



FRAME ARTEC 1-GANG
 MTN481119
 polar white glossy
 MTN481146
 stainless steel



- frame 1-gang in Merten ARTEC design
- Frames for multiple push button modules are available on request.



FRAME ARTEC FOR RCU-101
 MTN481919
 polar white glossy
 MTN481946
 stainless steel



- frame for RCU-101 in Merten ARTEC design



LON ARTEC MOTION DETECTOR
 MTN880971
 polar white glossy
 MTN880981
 stainless steel



- indoor motion detector in Merten ARTEC design
 - detection of movements within a horizontal angle of 180 degrees
 - motion-dependent control of room functions
 - integrated and individually adjustable threshold value switch for brightness-dependent light control
 - software applications to translate the detected movements according to LonMark profile "Occupancy sensor (1060)" into LON messages for occupancy-dependent light control and "Occupancy controller(3071)"
- To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured colour.

Digital output

I/O MODULE DR-N 4S-16A
MTN881831



- independent switching of four load groups
- four relay outputs (N.O. contacts, 16 A)
- manual operation per output
- status signaling via manual switch
- power-down detection
- supply voltage: DC 24 V
- screw-type terminals
- width of device: approx. 72 mm (4 pitch)
- software application for control of four independent consumer loads according to LonMark profile "Lamp Actuator (3040)" including timers, logic operation, prioritised control and configurable reaction of the outputs to power-up/bus reset.

In addition, four "Scene Controllers (3251)" are available.



I/O MODULE DR-N 8S 10A
MTN881801



- independent switching of eight load groups
- eight relay outputs (N.O. contacts, 10 A)
- manual operation and status indication per output
- power-down detection
- supply voltage: DC 24 V
- pluggable screw-type terminals
- width of device: approx. 72 mm (4 pitch)
- software application for control of eight independent consumer loads according to LonMark profile "Lamp Actuator (3040)" including timers, logic operation, prioritised control and configurable reaction of the outputs to power-up/bus reset.

Two "Scene Controllers (3251)" are available.



Sunblind

I/O MODULE DR-N MSCU4-AC
MTN881811



- control of four customary sunblinds by use of interference-suppressed standard motors
- eight relay outputs (N.O. contacts, 10 A)
- manual operation and status indication per output
- power down detection
- supply voltage: DC 24 V
- pluggable screw-type terminals
- width of device: approx. 72 mm (4 pitch)
- software application for control of four independent sunblind drives. Opportunity of prioritised control, analysis of meteorological data for sunblind protection, scene and group control



DALI Controller



DALI-CONTROLLER DR-S 8DIM
MTN887251



- control and supply of up to 64 DALI devices, divided into up to eight groups
- addressing of the DALI devices with LNS plug-in
- provides DALI supply voltage, 16 V
- status monitoring of all connected DALI devices
- monitoring of all lamps (if DALI compatible)
- status LEDs for diagnostics and status indication
- manual operation for direct control of DALI devices
- DALI device replacement with manual operation
- pluggable screw-type terminals
- supply voltage: AC 230 V
- DIN rail mounting according to EN 50 02)
- width of device: approx. 105 mm (6 pitch)
- software application for control of up to 64 DALI devices, divided into four groups including timers, prioritised control and configurable reaction to power-down/power-up/bus reset. Furthermore, the application provides constant light and scene control according to LonMark profile "Lamp Actuator (3040)", "Constant Light Controller (3050)" and scene control in the DALI devices

DALI Multi-Sensors



DALI MULTI-SENSOR LA-11
MTN880641



- combination of occupancy sensor and brightness sensor with DALI interface
- suitable for LON DALI Controller DR-S 8DIM and DALI Gateway REG 4x16 DIM (art. no. 36236-332)
- flush-mounting (surface-mounting in combination with Surface Mounting Box, art. no. 42020-106)
- circular sensor range with a diameter of approx. 14 m at 2.5 m mounting height
- detection range: 360 degrees
- five detection levels with 284 control segments in 71 zones
- brightness sensor for daylight-dependent light control, sensor range: 10 .. 1,000 Lux
- dimensions of surface-mounted sensor: 105 x 42.6 mm (D x H)
- potential free contact (delayed detection)

Dimmer Output

I/O MODULE DR-M DIM
400-RC
MTN880111



- phase control dimming (leading edge) of incandescent lamps, HV halogen lamps and electronic transformers
- connected load: max. 400 VA
- electronic short-circuit and overload protection
- status LED and switch for manual change between ON, OFF and bus mode
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 72 mm (4 pitch)
- software application for dimming the light including timers, prioritised control and configurable reaction to power-up/bus reset. In addition, the application provides constant light and scene control according to LonMark profile "Lamp Actuator (3040)", "Constant Light Controller (3050)", "Scene Controller (3251)" and "Occupancy Controller (3071)"



I/O MODULE DR-M DIM
600-RL
MTN880101



- phase control dimming (trailing edge) of incandescent lamps, HV halogen lamps and dimmable, wound transformers
- connected load: 25 .. 600 VA
- short-circuit and overload protection
- status LED, overload indicator and switch for manual change between ON, OFF and bus mode
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 72 mm (4 pitch)
- software application as per LON I/O Module DR-M DIM 400-RC (art. no. MTN880111)



I/O MODULE DR-N 3DIM 1-10V
MTN881001



- control of devices with 1-10 V interface (controllable electronic ballasts, electronic transformers etc.)
- three analog outputs (1-10 V) for dimming and three relay outputs (N.O. contact, 16 A) for switching
- current load (analog output): max. 100 mA
- power down detection
- pluggable screw-type terminals
- supply voltage: DC 24 Vs
- switch for manual control of the relay contact
- screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 75 mm (4 pitch)
- software application for dimming the light including timers, prioritised control and configurable reaction to power-up/bus reset. In addition, the application provides constant light and scene control according to LonMark profile "Lamp Actuator (3040)", "Constant Light Controller (3050)", "Scene Controller (3251)"



Digital Inputs



I/O MODULE DR-M 4DI
MTN880501



- connection of devices with floating contacts
- four inputs
- status LED per input
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 45 mm (2.5 pitch)
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Occupancy Sensor (1060)" for light or sunblind control including configurable pulse-edge evaluation; additionally an application with "Partition Wall Controller" is available

Occupancy/Motion Detectors



MULTI-SENSOR LA-21
MTN880541



- combination of occupancy sensor and brightness sensor
- flush-mounting (surface-mounting in combination with Surface Mounting Box, art. no. 42020-106)
- circular sensor range with a diameter of approx. 14 m at 2.5 m mounting height
- detection range: 360 degrees
- several detection levels with over all 544 control segments in 136 zones
- brightness sensor for daylight-dependent light control, sensor range: 10 .. 1,000 Lux
- dimensions of surface-mounted sensor: 105 x 42.6 mm (D x H)
- software application to translate the detected movements (according to LonMark profile "Occupancy Sensor (1060)" and "Occupancy Controller (3071)"), resp. the detected brightness (LonMark profile "Light Sensor (1010)") into LON messages for occupancy-dependent light or sunblind control

The Surface Mounting Box (art no. 42020-106) has to be ordered separately if required.

MULTI-SENSOR ILA-22
MTN880551



- combination of occupancy sensor, brightness sensor and IR receiver
- IR receiver for control of various room functions (in combination with IR Remote Control, art. no. MTN570222)
- software application to translate the detected movements (according to LonMark profile "Occupancy Sensor (1060)" and "Occupancy Controller (3071)"), resp. the detected brightness (LonMark profile "Light Sensor (1010)") into LON messages for occupancy-dependent light or sunblind control as well as for control of room functions (LonMark profile "Switch (3200)" and "Scene Panel (3250)") by use of the received IR signals
- other features as per LON Multi-Sensor LA-21 (art. no. MTN880541)

The IR Remote Control (art. no. MTN570222) and the Surface Mounting Box (art no. MTN550619) have to be ordered separately if required.



SURFACE MOUNTING BOX FOR MULTI-SENSOR LA-21/ILA-22
MTN550619

- for surface-mounting of the LON Multi-Sensor LA-21 (art. no. MTN880541) and ILA-22 (art. no. MTN880551)
- colour: polar white (similar to RAL 9010)



IR REMOTE CONTROL
MTN570222

- for recalling up to ten different room functions for lighting, sunblinds, etc.
 - suitable for the articles LON Room Control Unit RCU-101 (System-M und ARTEC), LON Push button MF-IR, RCP-80, RCP-81 and LON Multi-Sensor ILA-22
- The required batteries, 2 pieces AAA (micro), are not included.



LON ARTEC TEMPERATURE CONTROLLER RTR-51

MTN880951
polar white glossy
MTN880961
stainless steel



- continuous-action controller for heating and cooling incl. integrated temperature sensor
- in Merten ARTEC design
- calculates manipulated variables from setpoint and actual temperature values according to the particular operation mode
- can control a valve or switching actuator in combination with an electro-thermal control valve
- two different setpoints for heating and cooling
- status LEDs to indicate operation modes like comfort, standby, night, frost/heat protection and controller inhibit
- presence button, to change over from standby to comfort mode
- rotary switch for setpoint adjustment
- degree of protection: IP 20
- software application according to LonMark profile "Thermostat (8060)" and "Space Comfort Control Command Module (8090)"

To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured colour.



Product Section 2

System components



LON POWER SUPPLY LPS-W
11031-004



- power supply for devices with Link Power Transceivers
- output current: max. 1.5 A (short-circuit- and overload-proof)
- adjustable bus terminator for free or line topology
- supply voltage: AC 230 V +/- 10 %
- DIN rail mounting according to EN 50 022
- width of device: approx. 215 mm (12 pitch)

Panels



LON SYSTEM-M
PUSH BUTTON 1-GANG
46015-474
polar white matt



- application module in Merten System-M design
 - two push buttons for individually assigned functions
 - two status LEDs
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Occupancy Sensor (1060)" for light, sunblind or scene and occupancy control
- To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.



LON SYSTEM-M
PUSH BUTTON 2-GANG
446015-479
polar white matt



- application module in Merten System-M design
 - four push buttons for individually assigned functions
 - two status LEDs
 - other features as per LON System-M Push button 1-gang (art. no. 46015-474)
- To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.



LON SYSTEM-M
PUSH BUTTON 4-GANG
46015-484
polar white matt

- application module in Merten System-M design
 - eight push buttons for individually assigned functions
 - four status LEDs
 - other features as per LON System-M Push button 1-gang (art. no. 46015-474)
- To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.

LON SYSTEM-M
PUSH BUTTON MF 4-GANG

46015-489
polar white matt



- application module in Merten System-M design
- eight push buttons for individually assigned functions
- eight status LEDs
- other features as per LON System-M Push button 1-gang (art. no. 46015-474)

To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.



LON SYSTEM-M
PUSH BUTTON MF-IR
4-GANG

446015-494
polar white matt



- application module in Merten System-M design
- eight push buttons for individually assigned functions
- IR receiver for control of the button functions via IR Remote Control (art. no. 42083-107)
- eight status LEDs
- other features as per LON System-M Push button 1-gang (art. no. 46015-474)

To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.



LON SYSTEM-M ROOM
CONTROL UNIT RCU-61

46015-499
polar white matt



- application module with display in Merten System-M design
- backlit LC display
- four push buttons for individually assigned functions with a status LED for each push button
- two push buttons for setpoint adjustment and configuration of the display functions
- continuous-action controller for heating and cooling incl. integrated temperature sensor
- calculates manipulated variables from setpoint and actual temperature values according to the particular operation mode
- can control valves or switching actuators in combination with an electro-thermal control valve
- two different setpoints for heating and cooling
- display to indicate room temperature and operation modes as per comfort, standby, night
- degree of protection: IP 20
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Thermostat (8060)" for light, sunblind or scene and room temperature control

To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.





FRAME M-PLAN 1-GANG
49019-451 polar white matt

- frame 1-gang in Merten M-PLAN design
- Frames for multiple push button modules are available on request.



FRAME M-PLAN FOR RCU-101
49019-454 polar white matt

- frame for RCU-101 in Merten M-PLAN design



FRAME M-PLAN GLASS
1-GANG
49019-458 glass sapphire

- frame 1-gang in Merten M-PLAN Glass design
- Frames for multiple push button modules are available on request.



LON SYSTEM-M ROOM
CONTROL UNIT RCU-101
46015-504
polar white matt



- application module with display in Merten System-M design
- eight push buttons for individually assigned functions with a status LED for each push button
- IR receiver for control of the button functions via IR Remote Control (art. no. 42083-107)
- Piezo buzzer to indicate warnings or alarms
- other features as per LON System-M Room Control Unit RCU-61 (art. no. 46015-499)

To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.

Occupancy/Motion Detectors

LON SYSTEM-M MOTION DETECTOR

42015-517 polar white matt



- indoor motion detector in Merten System-M design
- detection of movements within a horizontal angle of 180 degrees
- motion-dependent control of room functions
- integrated and individually adjustable threshold value switch for brightness-dependent light control
- software application to translate the detected movements according to LonMark profile "Occupancy Sensor (1060)" and "Occupancy Controller (3071)" into LON messages for occupancy-dependent light control

To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.



LON SYSTEM-M MOTION DETECTOR 2.2M

42015-521 polar white matt



- indoor motion detector in Merten System-M design
- detection of movements for motion-dependent control of room functions
- integrated and individually adjustable threshold value switch for brightness-dependent light control
- area of detection: 180°
- range: 8 m left/right, 12 m at the front
- mounting height: 2.2 m or 1.1 m with half the range
- software application to translate the detected movements according to LonMark profile "Occupancy Sensor (1060)" and "Occupancy Controller (3071)" into LON messages for occupancy-dependent light control

To be completed with a LON Bus Coupling Unit UP (MTN880451) and a frame in the favoured design.



Digital Inputs



LON I/O MODULE REG-M
4DI AC/DC
31333-251



- connection of conventional devices with 24 V output
- four inputs (AC/DC 12 .. 30 V)
- status LED per input
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 45 mm (2.5 pitch)
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Occupancy Sensor (1060)" for light or sunblind control including configurable pulse-edge evaluation



LON I/O MODULE REG-M
8DI AC/DC
31333-252



- connection of conventional devices with 24 V output
- eight inputs (AC/DC 12 .. 30 V)
- width of device: approx. 72 mm (4 pitch)
- other features as per LON I/O Module REG-M 4DI AC/DC (art. no. 31333-251)



LON I/O MODULE REG-M
8DI DC-P
31333-254



- connection of devices with floating contacts
- eight inputs
- status LED per input
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 72 mm (4 pitch)
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Occupancy Sensor (1060)" for light or sunblind control including configurable pulse-edge evaluation



LON I/O MODULE REG-M
8DI 230V
31333-256



- connection of conventional devices with 230 V output
- eight inputs (AC 230 V)
- status LED per input
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 72 mm (4 pitch)
- software application according to LonMark profile "Switch (3200)", "Scene Panel (3250)" and "Occupancy Sensor (1060)" for light or sunblind control including configurable pulse-edge evaluation

Digital Outputs

LON I/O MODULE REG-M
8S 10A

32333-202



- independent switching of eight load groups
- eight relay outputs (N.O. contacts, 10 A)
- manual operation and status LED per output
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 72 mm (4 pitch)
- software application for control of eight independent consumer loads according to LonMark profile "Lamp Actuator (3040)" without timers, logic operation or other controllers



LON I/O MODULE REG-M
8S 16A

32333-322



- independent switching of eight load groups
- eight relay outputs (N.O. contacts, 16 A)
- manual operation per output
- status signaling via manual switch
- width of device: approx. 144 mm (8 pitch)
- other features as per LON I/O Module REG-M 4S (art. no. 32333-235), but with eight "Lamp Actuator (3040)", two "Scene Controller (3251)" and one "Global Control" object



LON I/O MODULE REG-M
12S 16A

32333-323



- independent switching of twelve load groups
- twelve relay outputs (N.O. contacts, 16 A)
- manual operation per output
- status signaling via manual switch
- width of device: approx. 216 mm (12 pitch)
- other features as per LON I/O Module REG-M 4S (art. no. 32333-235), but with twelve "Lamp Actuator (3040)" and one "Global Control" object



Combined In-/Outputs

LON I/O MODULE REG-N
8DI 8DO AC

35237-348



- independent switching of eight load groups
- for control of electro-thermal control valves
- eight inputs for connection of devices with floating contacts
- eight outputs: semiconductors AC 24 V (external supply required)
- manual operation and status indication per output and input
- supply voltage: DC 24 V
- pluggable screw-type terminals
- width of device: approx. 72 mm (4 pitch)
- software application for control of eight independent consumer loads according to LonMark profile "Valve Positioner (8131)" or "Lamp Actuator (3040)" (two different applications). The slopes at the digital inputs are translated according to LonMark profile "Switch (3200)"





LON I/O MODULE REG-S
4W 4DI 24V
35236-150



- four inputs (AC 24 V) and four relay outputs (changeover contacts, 10 A)
- independent switching of four load groups
- connection of four push buttons or other floating contacts
- contact voltage per input: approx. AC 24 V
- contact current per input: approx. 10 mA
- manual operation and status LED for every input and output
- power-down detection
- pluggable screw-type terminals
- supply voltage: AC 230 V
- DIN rail mounting according to EN 50 022
- width of device: approx. 105 mm (6 pitch)
- software application for control of four independent consumer loads according to LonMark profile "Lamp Actuator (3040)" including timers, logic operation, prioritised control and configurable reaction of the outputs to power-down/power-up/bus reset. In addition, two "Scene Controllers (3251)" are available and a definable group of outputs can be switched on and off simultaneously. The slopes at the digital inputs are translated according to LonMark profile "Switch (3200)", "Scene Panel (3250)" or "Occupancy Sensor (1060)" for light or sunblind control including configurable pulse-edge evaluation.



LON I/O MODULE UP
6DI 2DO
35212-362



- connection of conventional push buttons or other floating contacts
- six inputs and two outputs
- mounting in installation socket of 63 mm depth
- clamp-type terminals
- supply voltage: DC 24 V
- contact voltage: approx. DC 24 V
- dimensions: 57 x 57 x 21 mm (H x W x D)
- software application according to LonMark profile "Switch (3200)" for light or sunblind control



LON I/O MODULE REG-S
4W4S 8DI 24V
35236-151



- eight inputs (AC 24 V) and eight relay outputs (four changeover con-tacts, 10 A, four N.O. contacts, 10 A)
- independent switching of up to eight load groups
- connection of eight push buttons or other floating contacts
- width of device: approx. 157.5 mm (9 pitch)
- other features as per LON I/O Module 4W 4DI 24V (art. no. 35236-150), but with eight "Lamp Actuator (3040)" and eight "Switch (3200)" objects, one "Scene Panel (3250)" object, one "Occupancy Sensor (1060)" object and without "Scene Controller (3251)" object

Sunblind

LON I/O MODULE REG-S MSE4 8DI 24V

35236-199



- eight inputs (AC 24 V) and eight relay outputs (N.O. contacts, 10 A)
- control of four customary sunblinds by use of interference-suppressed standard motors (AC 230 V)
- software application for control of four independent sunblind drives including prioritised control, analysis of meteorological data for sunblind protection, scene and group control and according to LonMark profile "Switch (3200)", "Scene Panel (3250)" or "Occupancy Sensor (1060)" for translation of the slopes at the digital inputs into messages for light or sunblind control including configurable pulse-edge evaluation
- other features as per LON I/O Module REG-S 4W4S 8DI 24V (art. no. 35236-151)



LON I/O MODULE REG-S MSE2 4DI 24V

35236-174



- four inputs (AC 24 V) and four relay outputs (N.O. contacts, 10 A)
- control of two customary sunblinds by use of interference-suppressed standard motors (AC 230 V)
- software application for control of two independent sunblind drives including prioritised control, analysis of meteorological data for sunblind protection, scene and group control and according to LonMark profile "Switch (3200)", "Scene Panel (3250)" or "Occupancy Sensor (1060)" translation of the slopes at the digital inputs into messages for light or sunblind control including configurable pulse-edge evaluation
- other features as per LON I/O Module REG-S 4W 4DI 24V (art. no. 35236-150)



LON I/O MODULE REG-M MSE4

32333-203



- control of four customary sunblinds by use of interference-suppressed standard motors (AC 230 V)
- eight relay outputs (N.O. contacts, 6 A)
- manual operation and status LED per output
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 72 mm (4 pitch)
- software application for control of four independent sunblind drives. Opportunity for prioritised control, analysis of meteorological data for sunblind protection, scene and group control and configurable reaction of the outputs to power-up and bus reset.



DALI Controller/Gateway



LON DALI-CONTROLLER
REG-S 4DIM
36236-128



- control and supply of up to 64 DALI devices, divided into four groups
- addressing of the DALI devices with LNS plug-in
- provides DALI supply voltage, 16 V
- status monitoring of all connected DALI devices
- monitoring of all lamps (if DALI compatible)
- status LEDs for diagnostics and status indication
- manual operation for direct control of DALI devices
- DALI device replacement with manual operation
- pluggable screw-type terminals
- supply voltage: AC 230 V
- DIN rail mounting according to EN 50 022
- width of device: approx. 105 mm (6 pitch)
- software application for control of up to 64 DALI devices, divided into four groups including timers, prioritised control and configurable reaction to power-down/power-up/bus reset. In addition, the application provides constant light and scene control according to LonMark profile "Lamp Actuator (3040)", "Constant Light Controller (3050)" and scene control in the DALI devices



LON DALI-CONTROLLER
REG-S 16DIM
36236-236



- features as per LON DALI-Controller REG-S 4DIM (art. no. 36236-128), but this controller can control up to 16 DALI groups



LON DALI GATEWAY REG
4X16 DIM
36236-332



- four DALI outputs to control up to 64 DALI devices for each output, divided into sixteen groups
- EIA-232 interface for device configuration
- TP/FT-10 transceiver and Ethernet socket
- addressing of the DALI devices with LNS plug-in
- status monitoring of all connected DALI devices
- monitoring of all lamps (if DALI compatible)
- status LEDs for diagnostics and status indication
- manual operation for direct control of DALI devices
- pluggable screw-type terminals
- supply voltage: DC 24 V
- DIN rail mounting according to EN 50 022
- width of device: approx. 157 mm (7 pitch)
- software application for control of the DALI devices, including timers, prioritised control and configurable reaction to power-down/power-up/bus reset. In addition, the application provides constant light and scene control according to LonMark profile "Lamp Actuator (3040)", "Constant Light Controller (3050)" and scene control in the DALI devices

A power supply for the DALI gateway and the DALI devices (art. no. 11837-467) has to be ordered separately if required.

DALI POWER SUPPLY
REG-N 140
11837-467



- power supply for the LON DALI-Gateway REG 4x16 DIM
- one output DC 24 V (max. 7 W)
- outputs for the supply of four DALI lines (DC 16 V, 116 mA per output)
- LED per output for status and failure indication
- supply voltage: AC 230 V
- temperature range: 5°C .. 40°C
- pluggable screw-type terminals
- DIN rail mounting according to EN 50 022
- width of device: approx. 72 mm (4 pitch)



Physical Sensors

LON MULTI-SENSOR
LT-23 AP
43334-114

- for daylight- and outdoor temperature-dependent controls
- integrated light and temperature sensor
- range of the light sensor: 1 .. 65,000 Lux
- range of the temperature sensor: -20 .. +50 °C
- pole- or wall-mounting
- degree of protection: IP 54
- dimensions: 93 x 72 x 57 mm (H x W x D)
- application for transmission of the measured values to the LON network (LonMark profile "Light Sensor (1010)" and "Temperature Sensor (1040)") and with threshold value switches for analysis of the detected values



LON INDOOR TEMPERATURE
SENSOR AP RTS-10
63325-246

- for indoor temperature-dependent controls
- integrated temperature sensor
- measuring range of temperature sensor: -5 .. +50 °C
- wall-mounting
- degree of protection: IP 20
- dimensions: 73 x 73 x 24 mm (H x W x D)
- application for transmission of the measured values to the LON network according to LonMark profile "Temperature Sensor (1040)" and with threshold value switch for analysis of the detected values



LON VALVE ACTUATOR
SA-22
62301-233

- heating and cooling applications
- two inputs for floating contacts (e. g. for window control, occupancy sensors or dew point detectors etc.)
- regular automatic valve adjustment and valve lift detection
- service pin and service LED
- status LEDs to indicate the valve lift
- connection via pre-assembled, fixed cable (approx. 1 m)
- very low-noise operation
- mounting on thermostatic valve connection thread M30x1.5
- dimensions: 82 x 50 x 65 mm (H x W x D)
- software application for drive control and analysis of the digital input values according to the applicable LonMark profiles





LON SENSOR UNIT SE-843
43230-036



- for sunblind control
- connection of eight light sensors, three wind sensors, one rainfall gauge and one sensor each for temperature, relative humidity and wind direction
- propagates the measured values via the LON network to the connected devices
- supply voltage: AC 230 V
- DIN rail mounting according to EN 50 022
- dimensions: 110 x 190 x 58 mm (H x W x D) (approx. 11 pitch)



OUTDOOR TEMPERATURE
SENSOR MWG-AT
43021-040

- for connection to the LON Sensor Unit SE-843 (art. no. 43230-036)
- precise outdoor temperature detection
- special protection against heating due to incident solar radiation
- measuring range: -25 .. +70 °C

A mounting pole and further accessories are available on request.



BRIGHTNESS SENSOR
MWG-H
43021-038

- connection to the LON Sensor Unit SE-843 (art. no. 43230-036)
- detection of the ambient brightness level
- incl. adjusting unit
- measuring range: 0.2 .. 100 kLux

A mounting pole and further accessories are available on request.



RAINFALL GAUGE MWG-N
43020-098

- for connection to the LON Sensor Unit SE-843 (art. no. 43230-036)
- rainfall detection via photoelectric IR light barrier system
- adjustable sensitivity
- for supply of the electronics and heating the casing top a Power Supply AP 1024 AC is required

The Power Supply AP 1024 AC (art. no. 49023-041) needed for operation has to be ordered separately.

A mounting pole and further accessories are available on request.

WIND SENSOR MWG-W
43020-037

- for connection to the LON Sensor Unit SE-843 (art. no. 43230-036)
- precise aluminium detecting element for vectorial wind speed measuring
- measuring range: 0.3 .. 40 m/s
- heatable by use of the Power Supply AP 1024 AC

The Power Supply AP 1024 AC (art. no. 49023-041) has to be ordered separately if required.

A mounting pole and further accessories are available on request.



POWER SUPPLY AP 1024 AC
49023-041

- for supply of the Rainfall Gauge (art. no. 43020-098) or the Wind Sensor (art. no. 43020-037)
- output voltage: AC 22 .. 27 V
- output current: 1 A
- supply voltage: AC 230 V
- degree of protection: IP 30
- dimensions: 189 x 79 x 52 mm (H x W x D)



Legend of Pictograms



Type of transceiver used



A universal plug-in available



Supply voltage 230 VAC



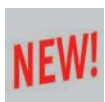
A device specific LNS plug-in available



Supply voltage 24 VDC



Ethernet/LON over IP



New article



DALI interface



Discontinued line

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On October 1st, 2009, TAC became the Buildings Business of its parent company Schneider Electric. This document reflects the visual identity of Schneider Electric, however there remains references to TAC as a corporate brand in the body copy. As each document is updated, the body copy will be changed to reflect appropriate corporate brand changes.

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