





**ALTENBURGER**  
ELECTRONIC GMBH

# **ALTENBURGER**

## Conventional and Wi-Fi Lighting Controls

EXPORT NET PRICELIST  
EFFECTIVE FROM 1.1.2018








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-  AQStation LAN/Wi-Fi Lighting Controls
-  KNX Lighting Controls
-  DALI Lighting Controls
-  ALTOQUICK DIN rail load and control dimmers
-  Thyristor-controlled power dimmers
-  Multi-Sensor Dimmers and Switches
-  EHR Dimmer



# CONTENT

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	<b>AQSTATION</b>	The AQStation system belongs to a new type of home and building automation and its visualization. Basically it comprises a decentralized network where different devices (actuators and sensors) independently within a LAN/Wi-Fi network are combined with each other.	<b>3</b>
	<b>KNX</b>	Load dimmers, operating in the phase-controlled (leading edge) and phase-interval controlled (trailing edge) mode. Universal dimmers, lighting controls with 1-10V and DALI/KNX interface, programmable dimming controls, sequence controls, IR/radio controls, sensors, control panels.	<b>13</b>
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The AQStation system belongs to a new type of home and building automation and its visualization. Basically it comprises a decentralized network where different devices (actuators and sensors) independently within a LAN/Wi-Fi network are combined with each other.



## Characteristics of the AQStation System



### It is based on a Network-Bus-System (LAN/Wi-Fi)

- It requires no separate gateway module for the communication with smartphones and tablets. A customary Wi-Fi router is sufficient.
- It offers a high communication security through the support of the WPA2 standard.



### The system requires no central unit

like Hub, Server, Touchpanel for the control and visualization with mobile devices. For the programming no previous knowledge is required.

- No charges for software and updates
- No charges for the immediate provision of updates
- Frequent actualization of the AQStation software



### No charges for the usage of software for iOS and Android operating systems

- no charges for software and updates
- no charges for the immediate provision of updates
- frequent actualization of the AQStation software



### Simple start with any new mobile device

For each additionally integrated visualization device no new software configuration is required. Through the start of the AQStation App the visualization of the building automatically is read out (automatic synchronization). A few seconds after the first start all available AQStation devices are ready to use. Conventional touchpanels are no longer required. Smartphones/tablets (iOS and Android) are sufficient. The usage of Android based 'All-in-one' PCs are possible.



### A comprehensive visualization – visualize, control and configure

The App allows to achieve a bidirectional control with live feedbacks.

Devices are arranged automatically within the building structure for an easy and comfortable access.



### **Lighting scenes (programmable dimming control systems)**

Any number of lighting circuits can be combined to lighting scenes. Scenes can be automated with timer functions and customized with fade times. The scenes through visualization can be integrated into building structures, floors, rooms or outside areas.



### **Manifold alternatives**

Devices can be combined into groups, scenes, timers etc. The AQStation system needs no expensive programming. All applications are available immediately and clearly arranged in the APP. Programming skills are not required. The AQStation system needs no software monitoring. No additional costs required for reprogramming. All functions are available in the App.



### **Internet use**

The control over the internet is realized through a VPN connection (Virtual Privat Network). It is sufficient to establish a VPN connection between the mobile devices and the router in order to be able to control the AQStation modules from outside of the local network.



### **Energy saving**

Comprehensive, personalized settings, e.g. with timers, dimmer settings and motion detection can be used for energy saving.



### **Modular architecture**

The system can be easily extended. Its decentralized structure ensures consistency. Any number of AQStation devices can be added or removed. Every kind of device (e.g. for DIN-rail, flush mount or mobile) can be freely combined. The failure of one component has no effect on the functionality of the other ones or of the system.



### **Operation without network connection**

The pushbuttons of the actuators operate also without a network. The control of the AQStation module is effected with the pushbuttons at the housing or the pushbutton interface. Consequently, in case of a failure of the network connection all modules can still be operated.

# AQStation

## LAN/Wi-Fi-Lighting Controls




Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>AQStation Universal</b></p> <p>The AQStation Universal is a LAN/Wi-Fi based controller for three circuits in DIN-Rail housing. Each circuit has a combination interface (0-10 V + 3mA / 1-10V - 100mA) and a 10A potential-free relay. Each relay has a separate voltage input.</p> <p>Each output has a separate pushbutton interface for connecting potential-free pushbuttons with the following functions:</p> <p>Short press: on / off            Long press: brighter / darker            Double press: saving the switch-on value</p>	<p><b>AQS</b> <b>Universal</b></p>	<p><b>90.10.200</b></p>	<p><b>296,-</b></p>
	<p><b>AQStation DIM 3x 250W</b></p> <p>The AQStation Dim 3 x 250 W is a LAN/Wi-Fi controlled dimmer for three circuits (3x 250W) in DIN-Rail housing, intended for dimming of high-voltage halogen lamps, low-voltage halogen lamps (via electronic transformers), power-LEDs (230 V), LED converters and incandescent light bulbs. Each dimmer has a separate voltage input.</p> <p>Each output has a separate pushbutton interface for connecting potential-free pushbuttons with the following functions:</p> <p>Short press: on / off            Long press: brighter / darker            Double press: saving the switch-on value</p>	<p><b>AQS</b> <b>DIM 3x 250W</b></p>	<p><b>90.10.100</b></p>	<p><b>336,-</b></p>
	<p><b>AQStation Switch 3x 10A</b></p> <p>The AQStation Switch 3x is a LAN/Wi-Fi based controller with potential-free relays for 3 circuits in DIN-Rail housing. These outputs are designed to control devices up to 10A. Each relay has a separate voltage input. This allows the connection of different voltages.</p> <p>Each output has a separate pushbutton interface for connecting potential-free pushbuttons with the following functions:</p> <p>Short press: on / off</p>	<p><b>AQS</b> <b>Switch 3x 10A</b></p>	<p><b>90.10.000</b></p>	<p><b>216,-</b></p>



Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>AQStation Switch 10x 5A</b></p> <p>The AQStation Switch 10x is a LAN/Wi-Fi-based controller with potential-free relays for 10 circuits in DIN-Rail housing. These outputs are designed to control devices up to 5A. Two relays each share a voltage input. This allows the connection of different voltages.</p> <p>Each output has a separate pushbutton interface for connecting potential-free pushbuttons with the following functions:</p> <p>Short press:        on / off</p>	<p><b>AQS Switch 10x 5A</b></p>	<p><b>90.10.010</b></p>	<p><b>392,-</b></p>
		        		
	<p><b>AQStation Jalousie 5x</b></p> <p>The AQStation Jalousie 5x is a LAN/Wi-Fi-based controller with five roller shutter control outputs in DIN-Rail housing. Each output has two potential-free 5A relays and its own voltage input. This allows the connection of different motor voltages. The relays of a circuit lock each other, so that a wrong operation is excluded. It is suitable for all kinds of electric blinds, curtains, shutters, awnings, pleats, windows, roof hatches, skylights, doors, gates, ventilation flaps, projector lift, etc.</p> <p>Each circuit has two separate pushbutton interfaces for connecting potential-free push-buttons with the following functions:</p> <p>Short press:        step up / step down          Long press:        fully open / fully close</p>	<p><b>AQS Jalousie 5x</b></p>	<p><b>90.10.300</b></p>	<p><b>392,-</b></p>
		      		
	<p><b>AQStation Input 14x</b></p> <p>The AQStation Input 14x is a LAN/Wi-Fi-based controller with 14 freely programmable binary inputs and 14 binary outputs in Din-Rail housing. The outputs can be supplied externally with up to 50 V DC and 500 mA each.</p> <p>Universal interface can be used, for example, to integrate heaters, air conditioners, garage doors or alarm systems.</p> <p>The inputs can also be used for integration of conventional switches, buttons and sensors into the AQStation system.</p> <p>The outputs can also be used to generating feedback of switching states.</p>	<p><b>AQS Input 14x</b></p>	<p><b>90.10.400</b></p>	<p><b>408,-</b></p>
		    		

# AQStation LAN/Wi-Fi-Lighting Controls



Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>AQStation DALI Bridge 3x</b></p> <p>The AQStation DALI Bridge 3x is a LAN/Wi-Fi-based controller with three DALI outputs for 64 DALI participants each in Din-Rail housing. The DALI participants are ready for immediate use. No commissioning or group assignment required. All DALI devices are addressed together (broadcast operation). The control unit already contains the power supply for the interfaces of the 3x 64 DALI devices.</p> <p>Each output has a separate pushbutton interface for connecting potential-free pushbuttons with the following functions:</p> <ul style="list-style-type: none"> <li>Short press: on / off</li> <li>Long press: brighter / darker</li> <li>Double press: saving the switch-on value</li> </ul>	<p><b>AQS DALI Bridge 3x</b></p>	<p><b>90.10.500</b></p>	<p><b>398,-</b></p>
<div style="display: flex; justify-content: center; gap: 10px;"> <span style="border: 1px solid black; padding: 2px 5px;">LAN</span> <span style="border: 1px solid black; padding: 2px 5px;">Wi-Fi</span> <span style="border: 1px solid black; padding: 2px 5px;">3x</span> <span style="border: 1px solid black; padding: 2px 5px;">64</span> <span style="border: 1px solid black; padding: 2px 5px; background-color: #4CAF50; color: white;">DALI</span> <span style="border: 1px solid black; padding: 2px 5px;">Broadcast</span> </div>				
	<p><b>AQStation DALI Master 3x</b></p> <p>The AQStation DALI Master 3x is a LAN/Wi-Fi-based DALI controller with 3 interfaces for a total of 192 DALI devices of DALI-type 0-8 in Din-Rail housing. It has 3 DALI interfaces, each of which can operate up to 64 DALI devices (192 in total). Already during commissioning, all DALI devices are automatically recognized and addressed, later extensions / additions are also automatically detected and are immediately available in the AQStation system. The DALI participants are immediately recognized, addressed and immediately available with full ease of use. The required power supply of the three DALI interfaces is already integrated in the device.</p> <p>The AQS DALI Master has new diagnostic and repair functions.</p>	<p><b>AQS DALI Master 3x</b></p>	<p><b>90.10.510</b></p>	<p><b>760,-</b></p>
<div style="display: flex; justify-content: center; gap: 10px;"> <span style="border: 1px solid black; padding: 2px 5px;">LAN</span> <span style="border: 1px solid black; padding: 2px 5px;">Wi-Fi</span> <span style="border: 1px solid black; padding: 2px 5px;">3x</span> <span style="border: 1px solid black; padding: 2px 5px;">64</span> <span style="border: 1px solid black; padding: 2px 5px; background-color: #4CAF50; color: white;">DALI</span> <span style="border: 1px solid black; padding: 2px 5px;">addressing</span> </div>				



Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>AQStation Sensor-Management-System 3x</b></p> <p>The AQStation SMS 3x is a LAN/Wi-Fi based sensor management system in DIN-Rail housing with connectivity for 3 light intensity and motion detection sensors and 3 push button inputs. The device automatically adjusts light levels in the controlled lamp groups and maintains the preset level depending on current lighting conditions. The use of a sensor with additional motion detection functionality allows for an even more energy efficient setup.</p>	<b>AQS SMS 3x</b>	<b>90.10.600</b>	<b>294,-</b>
			     	
	<p><b>Multi-sensor LBS/d</b></p> <p>Light intensity and motion detection sensor, surface mounted, for use with AQStation Sensor-Management-System 3x.</p>	<b>LBS/d</b>	<b>51.21.031</b>	<b>50,-</b>
			 	
	<p><b>Light-sensor LS/d</b></p> <p>Light intensity sensor, surface mounted, for use with AQStation Sensor-Management-System 3x.</p>	<b>LS/d</b>	<b>51.21.032</b>	<b>55,-</b>
				
	<p><b>AQStation Dimmer 350W black</b></p>	<b>AQS Dimmer B</b>	<b>90.00.100</b>	<b>118,-</b>
	<p><b>AQStation Dimmer 350W white</b></p> <p>The mobile Wi-Fi-controlled load dimmer (350W) in connector casing to connect socket -(230V, 50Hz) with load. It is intended for the dimming of the high-voltage halogen lamps, low-voltage halogen lamps (via electronic transformers), power-LEDs (230 V), LED converters and incandescent light bulbs.</p>	<b>AQS Dimmer W</b>	<b>90.00.101</b>	<b>118,-</b>
			      	
	<p><b>AQStation Switch 16A black</b></p>	<b>AQS Switch B</b>	<b>90.00.000</b>	<b>100,-</b>
	<p><b>AQStation Switch 16A white</b></p> <p>The mobile Wi-Fi switch in connector casing to connect socket (230V, 50Hz) with load. It is designed to switch the electronic devices of all kinds up to 16A.</p>	<b>AQS Switch W</b>	<b>90.00.001</b>	<b>100,-</b>
			       	

# AQStation LAN/Wi-Fi-Lighting Controls





































































Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQStation UP Input 4x</b>	<b>AQS UP Input 4x</b>	<b>90.20.400</b>	<b>118,-</b>
	<p>Wi-Fi-based control device to install in a wall box with four freely programmable volt-free binary inputs. It is used e.g. to integrate conventional switches, buttons and detectors with the AQStation system.</p>			
			  	
	<b>AQStation UP Jalousie 1x</b>	<b>AQS UP Jalousie 1x</b>	<b>90.20.300</b>	<b>118,-</b>
	<p>Wi-Fi-based control device to install in a wall box with one jalousie output and two freely programmable volt-free binary inputs. The output has two non-isolated relays 5A and each with button input with function up/down. The relays of circuits block each other in order to ensure proper usage.</p>			
			       	
	<b>AQStation UP Switch 1x</b>	<b>AQS UP Switch 1x</b>	<b>90.20.000</b>	<b>118,-</b>
	<p>Wi-Fi-based control device to install in a wall box with one switch output and three freely programmable volt-free binary inputs. The output has one nonisolated relay 10A and a button input.</p>			
			          	
	<b>AQStation UP Switch 2x</b>	<b>AQS UP Switch 2x</b>	<b>90.20.010</b>	<b>118,-</b>
	<p>Wi-Fi-based control device to install in a wall box with two switch outputs and two freely programmable volt-free binary inputs. Each output has a non-isolated relay 5A and a button input.</p>			
			          	

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQ 1,3 KW LEADING EDGE DIMMER</b>	<b>AQ 1,3 KW BLACK</b>	<b>50.16.010</b>	<b>163,-</b>
	AQ 1,3 KW/KVA Leading Edge Dimmer (phase-controlled), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ 2,0 KW LEADING EDGE DIMMER</b>	<b>AQ 2 KW BLACK</b>	<b>50.16.210</b>	<b>264,-</b>
	AQ 2,0 KW/KVA Leading Edge Dimmer (phase-controlled), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ-0 0,7 KW TRAILING EDGE DIMMER</b>	<b>AQ-0 0,7 KW BLACK</b>	<b>50.16.110</b>	<b>190,-</b>
	AQ-0 0,7 KW/KVA Trailing Edge Dimmer (phase-interval), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via electronic transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ-0 1,4 KW TRAILING EDGE DIMMER</b>	<b>AQ-0 1,4 KW BLACK</b>	<b>50.16.111</b>	<b>264,-</b>
	AQ-0 1,4 KW/KVA Trailing Edge Dimmer (phase-interval), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via electronic transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ 1,5 KW UNIVERSAL DIMMER</b>	<b>AQ 1500-MFU BLACK</b>	<b>50.16.000</b>	<b>311,-</b>
	AQ 1500-MFU KW/KVA universal dimmer, DIN rail mounted with automatic load recognition for the control of incandescent lamps, high-voltage halogen lamps and low-voltage halogen lamps (via electronic or wire-wound transformers) as well as Power-LEDs and LED converter. No mixed-loads. With storage for two light scenes and Switch-on value.			
			     	

# AQStation

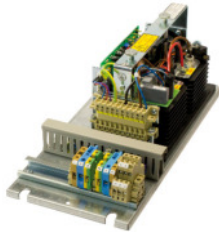
## LAN/Wi-Fi-Lighting Controls

Illustration	Description	Type	Order-No.:	EUR/piece
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### TH-phase controlled (leading edge) dimmer

TH-phase controlled (leading edge) dimmer; Thyristor-controlled dimmers with antiparallel switched power Thyristors with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking.

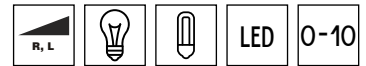
The dimmers are suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps (with wire wound transformers), power LEDs and LED-converter.



170 x 365 x 155 mm

1-phase TH-plug-in module with 0-10V interface: 230V/50Hz phase-controlled module

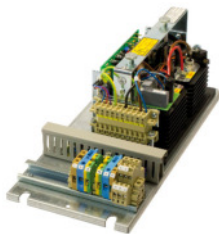
... UP TO 2 KW/KVA	TH 2 KW	51.02.000	273,-
... UP TO 3 KW/KVA	TH 3 KW	51.02.001	323,-
... UP TO 5 KW/KVA	TH 5 KW	51.02.002	439,-
... UP TO 8 KW/KVA	TH 8 KW	51.02.003	564,-



### TH-phase-interval controlled (trailing edge) dimmer

TH-phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking.

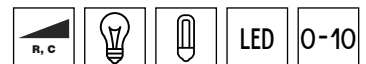
The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.



170 x 365 x 155 mm

1-phase TH-plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TH 2 KW-0	51.02.100	396,-
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<b>DALI – DIM CONVERTER-CONTROL</b>	<b>DC NV</b>	<b>85.01.002</b>	<b>188,-</b>
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DALI-Dim-Converter-Control DC NV

- Integrated power supply for the control of up to 100 DALI-ballasts, DALI-transformers or DALI-converters in the broadcast mode,
- constant light control (daylight dependent control) including presence detection in connection with Multi-Sensor-Dimmers,
- integrated A/D-converter for the conversion of 1-10V/0-10V-signals to DALI-signals, i.e. for the connection of 1-10V/0-10V control units to DALI-devices,
- suitable for potentiometer controls,
- suitable for the connection of 1- or 2-pushbutton panels.





# KNX-PROGRAMMABLE LIGHTING CONTROL SYSTEMS

Load dimmers, operating in the phase-controlled (leading edge) and phase-interval controlled (trailing edge) mode. Universal dimmers, lighting controls with 1-10V and DALI/KNX interface, programmable dimming controls, sequence controls, IR/radio controls, sensors, control panels.














































































Illustration	Description	Type	Order-No.:	EUR/piece
	<b>KNX – ALTODIM 600-0</b>	<b>IBDA 600-0</b>	<b>80.13.061</b>	<b>142,-</b>
	Phase-interval-controlled load-dimmer (lagging-/trailing-edge mode) with external pushbutton control for low-voltage halogen lamps with electronic transformers, incandescent lamps and high-voltage halogen lamps for up to 600 W/VA (with automatic overload protection) and for dimmable Power-LEDs (230 V). Without internal scene memory.			
			     	
	<b>KNX – ALTODIM 1400-0</b>	<b>IBDA 1400-0</b>	<b>80.13.064</b>	<b>305,-</b>
	Phase-interval-controlled load-dimmer (lagging-/trailing-edge mode) with external pushbutton control for low-voltage halogen lamps with electronic transformers, incandescent lamps and high-voltage halogen lamps for up to 1400 W/VA (with automatic overload protection) and for dimmable Power-LEDs (230 V). Without internal scene memory.			
			     	
	<b>KNX – ALTODIM 600</b>	<b>IBDA 600</b>	<b>80.13.065</b>	<b>142,-</b>
	Phase-controlled load-dimmer (leading-edge mode) with external pushbutton control for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and neon lamps for up to 600 W/VA (with automatic overload protection) and for Power-LEDs (230 V). Without internal scene memory.			
			     	
	<b>KNX – ALTODIM 1300</b>	<b>IBDA 1300</b>	<b>80.13.062</b>	<b>207,-</b>
	Phase-controlled load-dimmer (leading-edge mode) with external pushbutton control for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and neon lamps for up to 1300 W/VA (with automatic overload protection) and for Power-LEDs (230 V). Without internal scene memory.			
			     	
	<b>KNX – ALTODIM 2000</b>	<b>IBDA 2000</b>	<b>80.13.063</b>	<b>305,-</b>
	Phase-controlled load-dimmer (leading-edge mode) with external pushbutton control for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and neon lamps for up to 2000 W/VA (with automatic overload protection) and for Power-LEDs (230 V). Without internal scene memory.			
			     	
	<b>KNX – ALTODIM 1500 U</b>	<b>IBDA 1500 U</b>	<b>80.13.070</b>	<b>311,-</b>
	Universal-dimmer (with automatic load-detection of leading- or trailing-/lagging-edge control mode) for electronic transformers, incandescent lamps, low-voltage halogen-lamps with conventional transformers (inductive) for up to 1500 W/VA (with automatic overload protection) and for dimmable Power-LEDs (230 V). Without internal scene memory.			
			     	

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>KNX – ALTODIM 600-0/P</b>	<b>IBDA 600-0/P</b>	<b>80.13.161</b>	<b>205,-</b>
	Phase-interval-controlled load-dimmer (lagging-/trailing-edge mode) with integrated scene memory (for up to 25 scenes) and with external pushbutton control for low-voltage halogen lamps with electronic transformers, incandescent lamps and high-voltage halogen lamps for up to 600 W/VA (with automatic overload protection) and for dimmable Power-LEDs (230 V). With internal scene memory for up to 25 individual scenes.			
			     	
	<b>KNX – ALTODIM 1400-0/P</b>	<b>IBDA 1400-0/P</b>	<b>80.13.164</b>	<b>368,-</b>
	Phase-interval-controlled load-dimmer (lagging-/trailing-edge mode) with integrated scene memory (for up to 25 scenes) and with external pushbutton control for low-voltage halogen lamps with electronic transformers, incandescent lamps and high-voltage halogen lamps for up to 1400 W/VA (with automatic overload protection) and for dimmable Power-LEDs (230 V). With internal scene memory for up to 25 individual scenes.			
			     	
	<b>KNX – ALTODIM 600/P</b>	<b>IBDA 600/P</b>	<b>80.13.165</b>	<b>205,-</b>
	Phase-controlled load-dimmer (leading-edge mode) with integrated scene memory (for up to 25 scenes) and with external pushbutton control for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and neon lamps for up to 600 W/VA (with automatic overload protection) and for Power-LEDs (230 V). With internal scene memory for up to 25 individual scenes.			
			     	
	<b>KNX – ALTODIM 1300/P</b>	<b>IBDA 1300/P</b>	<b>80.13.162</b>	<b>270,-</b>
	Phase-controlled load-dimmer (leading-edge mode) with integrated scene memory (for up to 25 scenes) and with external pushbutton control for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and neon lamps for up to 1300 W/VA (with automatic overload protection) and for Power-LEDs (230 V). With internal scene memory for up to 25 individual scenes.			
			     	
	<b>KNX – ALTODIM 2000/P</b>	<b>IBDA 2000/P</b>	<b>80.13.163</b>	<b>368,-</b>
	Phase-controlled load-dimmer (leading-edge mode) with integrated scene memory (for up to 25 scenes) and with external pushbutton control for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and neon lamps for up to 2000 W/VA (with automatic overload protection) and for Power-LEDs (230 V). With internal scene memory for up to 25 individual scenes.			
			     	

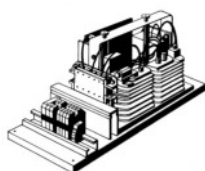


## Programmable Lighting Controls

Illustration	Description	Type	Order-No.:	EUR/piece
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TH-EIB/P - Leading edge dimmer (phase-controlled) with integrated programmable KNX-Switch-Dim-Actuator, Backplate-mounted in cabinets (optional wall-mounted or wall-recessed housing) for the control of incandescent lamps, low-voltage halogen lamps with wire-wound transformers, high-voltage halogen lamps and dimmable power LEDs (230V).

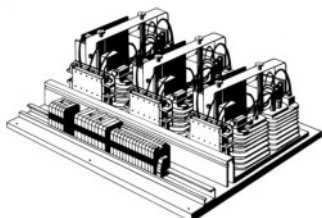
Backplate mounting design with mounting plate and terminal blocks, plug-in load- and control components. Lighting control unit with integrated programmable KNX-switch-dim-actuator, 0-10V/1-10V, and scene memory for up to 25 scenes.



170 x 365 x 155 mm

Single-phase TH-EIB / P plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 230 V, 50 Hz, phase control mode

... UP TO 2 KW/KVA	TH-EIB/P 2 KW	80.02.000	585,-
... UP TO 3 KW/KVA	TH-EIB/P 3 KW	80.02.001	636,-
... UP TO 5 KW/KVA	TH-EIB/P 5 KW	80.02.002	752,-
... UP TO 8 KW/KVA	TH-EIB/P 8 KW	80.02.003	878,-



425 x 365 x 155 mm

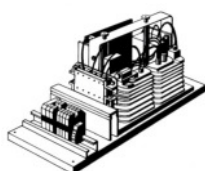
Three-phase TH-EIB / P plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 3x 230/400 V, 50 Hz, phase control mode

... UP TO 3X 2 KW/KVA	TH-EIB/P 3X 2 KW	80.11.000	1.288,-
... UP TO 3X 3 KW/KVA	TH-EIB/P 3X 3 KW	80.11.001	1.503,-
... UP TO 3X 5 KW/KVA	TH-EIB/P 3X 5 KW	80.11.002	1.580,-
... UP TO 3X 8 KW/KVA	TH-EIB/P 3X 8 KW	80.11.003	1.965,-



TH-EIB/P-0 - Trailing edge dimmer (phase-intervall) with integrated programmable KNX-Switch-Dim-Actuator, Backplate-mounted in cabinets (optional wall-mounted or wall-recessed housing) for the control of incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps and dimmable power LEDs (230V).

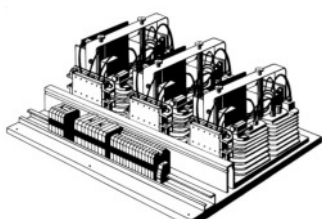
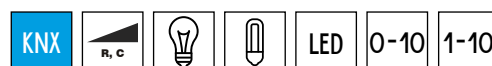
Backplate mounting design with mounting plate and terminal blocks, plug-in load- and control components. Lighting control unit with integrated programmable KNX-switch-dim-actuator, 0-10V/1-10V, and scene memory for up to 25 individual scenes.



170 x 365 x 155 mm

Single-phase TH-EIB / P plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 230 V, 50 Hz, phase section mode

... UP TO 2 KW/KVA	TH-EIB/P 2 KW-0	80.02.100	690,-
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425 x 365 x 155 mm

Three-phase TH-EIB / P-0 plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 3x 230/400 V-50 Hz, phase section mode

... UP TO 3X 2 KW/KVA	TH-EIB/P 3X 2KW-0	80.11.100	1.602,-
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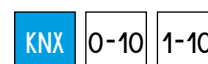
Illustration	Description	Type	Order-No.:	EUR/piece
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<b>PROGRAMMABLE KNX-SWITCH-DIM-ACTUATOR</b>	<b>IBDA-KP</b>	<b>80.14.132</b>	<b>229,-</b>
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Programmable KNX-Switch-Dim-Actuator with integrated scene memory for up to 25 scenes with preselectable fade time for each scene (1 - 9999 sec.) with 0-10V/1-10V-interface

- For the realization of convenience lighting controls in combination with pushbutton panels, touch panels, visualizations, layout-tableaus, etc.
- for switching, dimming, cross-fading and entering of light values and fade times,
- scene sequence managements, i.e. RGB control,
- infrared and radio remote controls.



<b>PROGRAMMABLE KNX/DALI-SWITCH-DIM-ACTUATOR</b>	<b>IBDA-DP</b>	<b>80.14.170</b>	<b>293,-</b>
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Programmable KNX/DALI-Switch-Dim-Actuator with integrated scene memory for up to 25 individual scenes, suitable for the control of up to 100 DALI-Ballasts, DALI-Transformers or DALI-Converters (digital -> analogue) in the broadcasting mode.

The device enables the following functions:

- The integration of DALI ballasts or transformers into EIB-Lighting systems. DALI ballasts are being switched and dimmed with EIB/KNX DALI switch-dim-actuators.
- The module has 25 internal scene memories with fade time settings from scene to scene, cleaning and corridor lighting controls. Additionally scenes can be programmed to a sequence and selected accordingly (scene sequence control). With the combination of 3 EIB/KNX DALI switch-dim-actuators e.g. a colour sequence (RGB) can be programmed. Additionally the EIB/KNX DALI switch-dim-actuator is one of the components for a complete EIB-programmable dimming control system. If the number of DALI ballasts or of converters exceeds the number of 100, additional EIB/KNX DALI switch-dim-actuators can be integrated (see system survey pages 32/33).
- The EIB/KNX DALI switch-dim-actuator can be operated with customary EIB-controls or with a suitable visualization. The module however also can be controlled directly with a pushbutton input and a customary pushbutton for mains (1-pushbutton-dim function). Details for the parametrizing and to objects: see application description.
- The actuator includes already the current supply for the interfaces of 100 DALI ballasts.



# KNX lighting control sensors

Illustration	Description	Type	Order-No.:	EUR/piece
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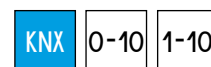


<b>KNX – MULTI-SENSOR-CONTROLLER</b>	<b>IBMSC-NV</b>	<b>80.14.810</b>	<b>222,-</b>
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KNX Multi-Sensor-Controller, The controller has the same functions as the Multi-Sensor IBMSD, it can however be connected with 6 IBMSD sensors for the extension of the range of motion detection. The sensors are not including the IBMSD control electronic. This is included in the controller IBMSC-NV. Its switch capacity is 16A. If one sensor recognizes a presence lighting in the range of detection of all connected sensors is switching ON. Each sensor identifies ,his' light level, and all connected sensors are computing a mixed light level which is the light level being kept constant.

Optional the functions ,presence detection' or ,daylight dependent constant light control' can be eliminated through the ETS software so that just one function is active.

The sensors are wired in a conventional mode. Optional the range of detection also can be extended with the combination of up to 64 IBMSD Multi-Sensor-Controls at the KNX bus.



<b>KNX LIGHT-VALUE CONTROL SWITCH IBLWS 3 OPERATING IN DEPENDENCE OF THE DAYLIGHT</b>	<b>IB-LWS3</b>	<b>80.14.016</b>	<b>364,-</b>
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The IBLWS 3 switches 3 connected light circuits in dependence of the daylight ON and OFF. The low-voltage signals from a light sensor being mounted outside the building or close to a window are processed by the IBLWS 3 according to the set light levels. The light levels for each channel can be set at the module between 20 and 2000 lux and between 200 and 20000 lux. With the ETS parameter it can be decided if the switch telegram shall be sent after the set light levels have exceeded or fallen below.

The IBLWS 3 has a switch capacity of max. 3x10 A/250 V ~.

Set and display functions:

- 1) 3 Potentiometers for the setting of the switch ON/OFF levels for each of the 3 channels
- 2) 3 LED: display for the switch state (lighting up if lamps are switched ON)



<b>PHOTOSENSOR FOR THE LIGHT-VALUE CONTROL SWITCH</b>	<b>LF/W/D</b>	<b>51.21.010</b>	<b>39,30</b>
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Water proof (IP 55), swivelling for a 2-hole-mounting outside or inside close to a window. Suitable in connection with the 3 channel KNX Light-value control switch, type IBLWS 3.



<b>PROTECTION BASKET FOR THE LF/W/D</b>	<b>SK</b>	<b>51.21.090</b>	<b>47,-</b>
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protection basket









Illustration	Description	Type	Order-No.:	EUR/piece
	Daylight- and presence depended working KNX-Multi-Sensor-Dimmer. In combination with KNX-switch actuator also heating, air-conditioners or fans can presence dependently be switched. Via the 1-10V interface electronic ballasts or transformers (with 1-10V interface) can be controlled. The active 0-10V interface is suitable for the control of load dimmers. Set-point adjustments can be carried out directly at the IB-MSD or via the ETS software as saved values of the objects. The constant light value can be furthermore programmed via a pushbutton panel which is also suitable for manual dimming with the functions On/Off - Brighter/Darker. Ceiling surface mounting design.	<b>IBMSD</b>	<b>80.14.800</b>	<b>190,-</b>
	As before, but in:  Ceiling mounting with round cover, color white.  Extremely flat designs: max. 8 mm. With mounting brackets.	<b>IBMSD/R</b>	<b>80.14.800R</b>	<b>209,-</b>
	As before, but in:  Ceiling mounting with square cover, color white.  Extremely flat designs: max. 8 mm. With mounting brackets.	<b>IBMSD/Q</b>	<b>80.14.800Q</b>	<b>209,-</b>





Illustration	Description	Type	Order-No.:	EUR/piece
	<b>1-PUSHBUTTON PANEL</b> customary, any make (non-KNX) in connection with an ALTENBURGER KNX load dimmer (ALTODIM, s. page 9), switch dim-actuator with 0-10V or 1-10V interface, Type IBDA/KP or with the DALISwitch-Dim-Actuator Type IBDA-DP.  Functions: BRIGHTER-DARKER-ON/OFF. The last light level being set before switching OFF will be achieved again after switching ON.	<b>NT 1 SO</b>	<b>80.14.540</b>	<b>20,10</b>
	<b>3-PUSHBUTTON PANEL</b> with integrated bus-coupling unit in connection with ALTENBURGER KNX-dimmers and with switch dim-actuators as referred to under panel type NT 1.  Pushbutton functions: BRIGHTER-DARKER-ON/OFF. Suitable in connection with EIB-projects. Optional: LED indication for ON.	<b>NT 3 SO</b>	<b>80.14.541</b>	<b>155,-</b>
	<b>4-PUSHBUTTON PANEL</b> with integrated bus-coupling unit with functions: 2 circuits, each one ON/BRIGHTER and DARKER/OFF or 1 circuit ON/BRIGHTER and DARKER/OFF 1x shutter, open/close  optional: other pushbutton functions Suitable KNX dimmers as under type NT1	<b>NT 4 SO</b>	<b>80.14.542</b>	<b>176,-</b>
	<b>5-PUSHBUTTON PANEL</b> with integrated bus-coupling unit with the pushbuttons: 4xScenes 1xON/OFF with LED-back indication for 2 circuits BRIGHTER/DARKER and 1xMaster control ON/OFF  Optional: other pushbutton functions Suitable KNX dimmers as under type NT1	<b>NT 5 SO</b>	<b>80.14.543</b>	<b>242,-</b>
	<b>6-PUSHBUTTON PANEL</b> with integrated bus-coupling unit in connection with ALTENBURGER KNX-dimmers and with switch dim-actuators as referred to under panel type NT 1. for 6 switch or dim-functions 6x Scenes or 5x Scenes, 1x On/OFF  Optional: other pushbutton functions (e.g. shutters, sun shade, outside lighting, door opener/interlocking) acc. to requirements Optional: with or without LED back indication	<b>NT 6 SO</b>	<b>80.14.544</b>	<b>253,-</b>

KNX

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Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>PROGRAMMABLE SCENE SELECTOR PANELS</b></p> <p>in combination with programmable ALTENBURGER EIB/KNX load dimmers (ALTODIM/P – see page 9 and 10), switch dim-actuators 0-10 V or 1-10V interface (type IBDA-KP s.page 11) or with KNX DALI-Switch-Dim-Actuator, Type IBDA/DP (s.page 11).</p> <p>Pushbutton functions:          6xScene selection (with LED indication)          1xBRIGHTER          1xDARKER          1xON/OFF (with LED indication)          1xProgramming (with LED indication)          Other pushbutton functions optional</p>	<b>MINI FIB6-PRO</b>	<b>80.14.510</b>	<b>334,-</b>
	<p><b>EIB/KNX PROGRAMMABLE SCENE SELECTOR PANEL, 81 X 81 MM</b></p> <p>For 1-gang boxes DIN 55 mmØ flat design (h=12mm)</p> <p>Pushbutton functions:          12 x Scene selection with LED-indication          1 x BRIGHTER          1 x DARKER          1 x ON/OFF with LED- indication          1 x Programming with LED-indication</p>	<b>MINI FIB12-PRO</b>	<b>80.14.520</b>	<b>418,-</b>

KNX

KNX

# Programmable Lighting Controls

Illustration	Description	Type	Order-No.:	EUR/piece	
	<b>INFRARED-HANDHELD-PROGRAMMER</b>	<b>IR/PRO</b>	<b>50.13.552</b>	<b>163,-</b>	
	<b>RADIO-HANDHELD-PROGRAMMER</b>	<b>FU/PRO</b>	<b>50.13.547</b>	<b>163,-</b>	
	Remote controls for programming and fade times of lighting scenes. The assignment of keys is similar with the layout of the respective pushbutton panels.				
	<b>INFRARED-HANDHELD-CONTROLLER FOR 12 LIGHTING SCENES</b>	<b>IR 12</b>	<b>50.13.548</b>	<b>229,-</b>	
	<b>INFRARED-HANDHELD-CONTROLLER FOR 6 LIGHTING SCENES</b>	<b>IR 6</b>	<b>50.13.549</b>	<b>185,-</b>	
	to recall 12 light scenes (IR 12) or 6 light scenes (IR 6) The hand transmitters can be used in parallel with push-button panels or touch panels.				
	<b>RADIO-HANDHELD-CONTROLLER FOR 12 LIGHTING SCENES</b>	<b>FU 12</b>	<b>50.13.550</b>	<b>229,-</b>	
	<b>RADIO-HANDHELD-CONTROLLER FOR 6 LIGHTING SCENES</b>	<b>FU 6</b>	<b>50.13.551</b>	<b>185,-</b>	
	to recall 12 light scenes (FU 12) or 6 light scenes (FU 6) The hand transmitters can be used in parallel with push-button panels or touch panels.				
	<b>KNX – ASSIGNER</b>	<b>IBAS</b>	<b>80.14.550</b>	<b>142,-</b>	
Room divider control (assigner).					
	<b>IR-SENSOR WITH ALUMINIUM COVER AND FRAME</b>	<b>IR-ES/R</b>	<b>50.13.143</b>	<b>50,-</b>	
	<b>IR-SENSOR WITH PLASTIC COVER (NO PICTURE)</b>	<b>IR-E/S</b>	<b>50.13.041</b>	<b>43,-</b>	
	<b>RADIO-RECEIVER</b>	<b>FU-E/S</b>	<b>52.10.000</b>	<b>86,-</b>	
	Radio receiver for surface mounting or for installation in deep switch box, with flexible antenna of about 10cm, incl. cable.				
	<b>KNX INFRARED- AND RADIO-DECODER</b>	<b>IBIR-P</b>	<b>80.14.402</b>	<b>229,-</b>	
	For the conversion of infrared- and radio-signals from handheld-programmers and handheld-controllers onto the KNX-network.				









## LIGHTING CONTROLS

Lighting controls and components, DALI/KNX auditorium lighting controls, DALI-converters, IR/radio controls, sensors, operating panels.

# DALI-Lichtsteuerungen

Abbildung	Beschreibung	Typ	Bestell-Nr.	EUR/Stück
	<b>DALI – CONTROLLER BASIC NV</b> DALI Controller Basic NV <ul style="list-style-type: none"> <li>Control of up to 64 DALI-ballasts, DALI-transformer or DALI-converters,</li> <li>assignment of the DALI-devices to up to 4 individual lighting groups (individual addressing),</li> <li>programming and selection of up to 4 lighting scenes,</li> <li>connection at 5-pushbutton panels for programming and selection of lighting scenes,</li> <li>constant light control (daylight dependent control) including presence detection in combination with Multi-Sensor-Dimmer.</li> </ul>	<b>DCB NV</b>	<b>85.01.000</b>	<b>251,-</b>
	<b>DALI – CONVERTER DIGITAL → ANALOG</b> DALI-Converter (digital -> analogue) for DIN-rail mounting. Converts DALI-signals to 1-10V/0-10V-signals (analog).	<b>DK 1-10V NV</b>	<b>85.01.001</b>	<b>78,-</b>
	<b>DALI – CONVERTER DIGITAL → ANALOG</b> DALI-Converter in compact design for installation in luminaries. Converts DALI-signals to 1-10V/0-10V-signals (analog).	<b>KDK 1-10V</b>	<b>85.02.000</b>	<b>75,-</b>
	<b>DALI – DIM/CONVERTER-CONTROL DC NV</b> DALI-Dim-Converter-Control DC NV <ul style="list-style-type: none"> <li>Integrated power supply for the control of up to 100 DALI-ballasts, DALItransformers or DALI-converters in the broadcast mode,</li> <li>constant light control (daylight dependent control) including presence detection in connection with Multi-Sensor-Dimmers,</li> <li>integrated A/D-converter for the conversion of 1-10V/0-10V-signals to DALI-signals, i.e. for the connection of 1-10V/0-10V control units to DALIdevices,</li> <li>suitable for potentiometer controls,</li> <li>suitable for the connection of 1- or 2-pushbutton panels.</li> </ul>	<b>DC NV</b>	<b>85.01.002</b>	<b>188,-</b>

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Abbildung	Beschreibung	Typ	Bestell-Nr.	EUR/Stück
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	<b>KNX/DALI – SCHALT-DIM-AKTOR</b>	<b>IBDA-DP</b>	<b>80.14.170</b>	<b>293,-</b>
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Programmable KNX/DALI-Switch-Dim-Actuator with integrated scene memory for up to 25 individual scenes, suitable for the control of up to 100 DALI-Ballasts, DALI-Transformers or DALI-Converters (digital -> analogue) in the broadcasting mode.

The device enables the following functions:

- The integration of DALI ballasts or transformers into EIB-Lighting systems. DALI ballasts are being switched and dimmed with EIB/KNX DALI switch-dim-actuators.
- The module has 25 internal scene memories with fade time settings from scene to scene, cleaning and corridor lighting controls. Additionally scenes can be programmed to a sequence and selected accordingly (scene sequence control). With the combination of 3 EIB/KNX DALI switch-dim-actuators e.g. a colour sequence (RGB) can be programmed. Additionally the EIB/KNX DALI switch-dim-actuator is one of the components for a complete EIB-programmable dimming control system. If the number of DALI ballasts or of converters exceeds the number of 100, additional EIB/KNX DALI switch-dim-actuators can be integrated (see system survey pages 32/33).
- The EIB/KNX DALI switch-dim-actuator can be operated with customary EIB-controls or with a suitable visualization. The module however also can be controlled directly with a pushbutton input and a customary pushbutton for mains (1-pushbutton-dim function). Details for the parametrizing and to objects: see application description.
- The actuator includes already the current supply for the interfaces of 100 DALI ballasts.



	<b>DALI – KNX/DALI-GATEWAY</b>	<b>AE DG/S 1.16.1</b>	<b>80.14.180</b>	<b>512,-</b>
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The gateway is used to control DALI ballasts, transformers and converters via the KNX bus. At the output, up to 64 DALI devices can be controlled. They can be individually addressed and assigned to 16 groups. The control via KNX is carried out exclusively via these 16 lighting groups.





The application program offers the following functions:

- Switch, dim and set brightness values
- Status messages about shared or separate objects
- Status message of a lamp and / or ballast fault
- Programming of individual maximum and minimum dimming values
- Different dimming speeds for switching, setting and dimming
- Behavior on DALI and KNX power failure and voltage recovery
- Programming the brightness value after an ballast operating voltage return (power-on level)
- KNX control of all connected DALI devices without prior commissioning (DALI group assignment)
- 14 independent light scenes that can be called up or stored via 1-bit or 8-bit telegrams






# DALI-Lichtsteuerungen

Abbildung	Beschreibung	Typ	Bestell-Nr.	EUR/Stück
	<b>MULTI-SENSOR</b> For daylight-dependent lighting control in conjunction with the DALI Controller Basic (DCB NV) or the DALI Dim / Converter Control (DC NV). Version: ceiling design	<b>LS/D</b>	<b>51.21.032</b>	<b>55,-</b>
	<b>MULTI-SENSOR</b> As before, but in: Ceiling mounting with round cover, color white. Extremely flat designs: max. 8 mm. With mounting brackets.	<b>LS/D/R</b>	<b>51.21.032R</b>	<b>74,-</b>
	<b>MULTI-SENSOR</b> As before, but in: Ceiling mounting with square cover, Color white. Extremely flat designs: max. 8 mm. With mounting brackets.	<b>LS/D/Q</b>	<b>51.21.032Q</b>	<b>74,-</b>
	<b>MULTI-SENSOR</b> Constant light maintenance with presence detection in conjunction with the DALI Controller Basic (DCB NV) or the DALI Dim / Converter Control (DC NV). Version: ceiling design	<b>LBS/D</b>	<b>51.21.031</b>	<b>50,-</b>
	<b>MULTI-SENSOR</b> As before, but in: Ceiling mounting with round cover, color white. Extremely flat designs: max. 8 mm. With mounting brackets.	<b>LBS/D/R</b>	<b>51.21.031R</b>	<b>69,-</b>
	<b>MULTI-SENSOR</b> As before, but in: Ceiling mounting with square cover, Color white. Extremely flat designs: max. 8 mm. With mounting brackets.	<b>LBS/D/Q</b>	<b>51.21.031Q</b>	<b>69,-</b>

Abbildung	Beschreibung	Typ	Bestell-Nr.	EUR/Stück
	<p><b>MULTI-SENSOR</b></p> <p>For constant light maintenance with presence detection in the downlight housing, swiveling suspension, in conjunction with the DALI Controller Basic (DCB NV) or the DALI Dim / Converter Control (DC NV).</p> <p>Version: ceiling mounting</p>	<b>LB/DK</b>	<b>51.21.039</b>	<b>82,-</b>
	<p><b>MULTI-SENSOR</b></p> <p>For constant light maintenance with presence detection for installation in lighting fixtures in conjunction with the DALI Controller Basic (DCB NV) or the DALI Dim / Converter Control (DC NV).</p>	<b>LBS/DE</b>	<b>51.21.033</b>	<b>45,-</b>
	<p><b>MULTI-SENSOR</b></p> <p>For constant light maintenance with presence detection in flush-mounted version for ceiling installation in Connection with the DALI Controller Basic (DCB NV) or the DALI Dim / Converter Control (DC NV).</p>	<b>LB/DB</b>	<b>51.21.048</b>	<b>55,-</b>
	<p><b>TAGESLICHT-SENSOR</b></p> <p>For daylight-dependent lighting control for luminaire installation in conjunction with the DALI Controller Basic (DCB NV) or the DALI Dim / Converter Control (DC NV).</p>	<b>LS/DE</b>	<b>51.21.034</b>	<b>45,-</b>



# DALI-Lichtsteuerungen





Abbildung	Beschreibung	Typ	Bestell-Nr.	EUR/Stück
	<p><b>1-TAST-TABLEAU</b></p> <p>(On / off, brighter / darker, light value storage by double-clicking), suitable for dim / converter control, DC NV</p> <p>Cover for flush-mounted boxes 55 mm Ø</p>	<b>NT 1 S0</b>	<b>80.14.540</b>	<b>20,10</b>
	<p><b>2-TASTEN-TABLEAU</b></p> <p>(On/brighter, darker/off, light value storage by common pressure of the two buttons), suitable for Dim / Converter Control DC NV</p> <p>Cover for flush-mounted boxes 55 mm Ø</p>	<b>CTM2T</b>	<b>51.01.321</b>	<b>86,-</b>
	<p><b>5-TASTEN-TABLEAU</b></p> <p>suitable for DALI Controller Basic NV, (DCB NV) with programming and recall keys for 4 light values + master button.</p> <p>Furthermore: preselection of the light value, which should be kept constant in automatic mode.</p> <p>Cover for flush-mounted boxes 55 mm Ø</p>	<b>CTM5T</b>	<b>51.01.325</b>	<b>155,-</b>



# ALTOQUICK

Load dimmers, operating in the phase-controlled and phase-interval controlled mode, universal dimmers, control modules with interfaces of 0-10V and 1-10V, auditorium controls, constant light controls, light value control switches, operating panels.

# ALTOQUICK dimmers and controllers

Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>MINI-KONSTANTER</b></p> <p>Simple daylight-dependent constant light control for luminaire installation, setpoint adjustment on the sensor, no supply voltage required.</p> <ul style="list-style-type: none"> <li>1-10V interface: -50mA DC</li> </ul>	<b>MK/1L</b>	<b>50.13.400</b>	<b>28,-</b>
	<p><b>MINI-KONSTANTER</b></p> <p>as before, but with stainless steel clamp for use on fluorescent tubes.</p>	<b>MK/LSK</b>	<b>50.13.411</b>	<b>32,-</b>
	<p><b>CONSTANT LIGHT CONTROL</b></p> <p>The Constant light control KAD-S to be fitted to light fixtures has to be combined with:</p> <ul style="list-style-type: none"> <li>1 external set value device or pushbutton</li> <li>1 x light sensor</li> </ul> <p>And as option:</p> <ul style="list-style-type: none"> <li>1 or more signal amplifiers</li> <li>1 or more motion detectors</li> </ul>	<b>KAD-S</b>	<b>50.13.310</b>	<b>153,-</b>
	<p><b>CURRENT SINK</b></p> <p>Conversion from 0-10V &gt; 1-10V for approx. 80 electronic ballasts</p>	<b>Stromsenkung</b>	<b>51.22.001</b>	<b>59,60</b>


































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Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQ 1,3 KW LEADING EDGE DIMMER</b>	<b>AQ 1,3 KW</b>	<b>50.13.010</b>	<b>163,-</b>
	AQ 1,3 KW/KVA Leading Edge Dimmer (phase-controlled), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ 2,0 KW LEADING EDGE DIMMER</b>	<b>AQ 2 KW</b>	<b>50.13.210</b>	<b>264,-</b>
	AQ 2,0 KW/KVA Leading Edge Dimmer (phase-controlled), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ-0 0,7 KW TRAILING EDGE DIMMER</b>	<b>AQ-0 0,7 KW</b>	<b>50.13.110</b>	<b>190,-</b>
	AQ-0 0,7 KW/KVA Trailing Edge Dimmer (phase-interval), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via electronic transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ-0 1,4 KW TRAILING EDGE DIMMER</b>	<b>AQ-0 1,4 KW</b>	<b>50.13.111</b>	<b>264,-</b>
	AQ-0 1,4 KW/KVA Trailing Edge Dimmer (phase-interval), DIN rail mounted for the control of incandescent lamps, low-voltage halogen lamps via electronic transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter.			
			    	
	<b>AQ 1,5 KW UNIVERSAL DIMMER</b>	<b>AQ 1500-MFU</b>	<b>50.13.000</b>	<b>311,-</b>
	AQ 1500-MFU KW/KVA universal dimmer, DIN rail mounted with automatic load recognition for the control of incandescent lamps, high-voltage halogen lamps and low-voltage halogen lamps (via electronic or wire-wound transformers) as well as Power-LEDs and LED converter. No mixed-loads. With storage for two light scenes and Switch-on value.			
			     	
	<b>AQ MASTER CONTROL</b>	<b>AQS</b>	<b>50.13.012</b>	<b>153,-</b>
	AQ-Master Control operating in connection with AQ load dimmer for the common control of a maximum of 40 AQ dimmers.			
				

# ALTOQUICK dimmers and controllers

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQ AUDITORIUM DIMMING CONTROL 1-PUSHBUTTON</b>	<b>NS1</b>	<b>50.13.015</b>	<b>179,-</b>
	The AQ Auditorium dimming control NS1 is suitable for up to 40 AQ-load dimmers with the functions BRIGHTER-DARKER-ON/OFF			0-10
	<b>AQ AUDITORIUM DIMMING CONTROL 3-PUSHBUTTONS</b>	<b>NS2-X</b>	<b>50.13.030</b>	<b>349,-</b>
	The AQ Auditorium dimming control NS2-X is suitable for the common control of up to 40 AQ-load dimmers with the following functions: 1 x BRIGHTER, 1 x DARKER 1 x ON/OFF			0-10
	<b>AQ AUDITORIUM DIMMING CONTROL 4-PUSHBUTTONS</b>	<b>NS4</b>	<b>50.13.013</b>	<b>320,-</b>
	The AQ Auditorium dimming control NS4 type is suitable for the common control of up to 40 AQ-load dimmers. With the NS4 the brightness between 0..100% continuously can be controlled with 4 pushbuttons (4-pushbutton function).			0-10
	<b>AQ AUDITORIUM DIMMING CONTROL WITH 4 SCENE SELECTIONS</b>	<b>NS4 WV</b>	<b>50.13.016</b>	<b>320,-</b>
	The AQ Auditorium dimming control NS4WV is suitable for the setting of 4 different light levels plus ON/OFF.			0-10
	<b>„AQ AUDITORIUM DIMMING CONTROL WITH 6 SCENE SELECTIONS“</b>	<b>NS6 WV</b>	<b>50.13.218</b>	<b>425,-</b>
	The AQ Auditorium dimming control NS6WV is suitable for the control of a maximum of 20 AQ load dimmers with the following functions: 6x Scene selection, 1x Brighter, 1x Darker, 1x ON, 1x OFF with the changeover interfaces of 0-10V (control of load dimmers) and 1-10V (control of electronic ballasts and transformers with 1-10V interface).			0-10 1-10



Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQ – DAYLIGHT CONTROL (REVERSE PROPORTIONAL)</b>	<b>AQNP</b>	<b>50.14.030</b>	<b>320,-</b>
	<p>The AQNP is a lighting control operating in the reverse proportional control mode to the daylight.</p>			
				0-10
	<b>AQ – DAYLIGHT CONTROL (PROPORTIONAL)</b>	<b>AQP</b>	<b>50.14.031</b>	<b>320,-</b>
	<p>The AQP is a lighting control operating in the proportional control mode to the daylight.</p>			
				0-10

# ALTOQUICK dimmers and controllers







Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQ 1-PUSHBUTTON PANEL</b> 1-touch function, suitable for the control units NS1, NS1-S and the universal touch dimmer AQ 1500-MFU. Cover for flush-mounted boxes 55 mm Ø	<b>NT 1 S0</b>	<b>80.14.540</b>	<b>20,10</b>
	<b>AQ 2-PUSHBUTTON PANEL</b> 2-button function, suitable for universal touch dimmer AQ 1500 MFU with on / brighter and off / darker functions. Cover for flush-mounted boxes 55 mm Ø	<b>CTM2T</b>	<b>51.01.321</b>	<b>86,-</b>
	<b>AQ 3-PUSHBUTTON PANEL</b> 3-button function, suitable for the control units NS2-X and NS2-SX with the functions brighter-darker on / off. Cover for flush-mounted boxes 55 mm Ø	<b>CTM3T</b>	<b>51.01.322</b>	<b>126,-</b>
	<b>AQ 5-PUSHBUTTON PANEL</b> 5-button function, suitable for the control units NS4 and NS4-S with external ON / OFF switching in flush-mounted version. Cover for flush-mounted boxes 55 mm Ø	<b>CTM5T</b>	<b>51.01.326</b>	<b>155,-</b>
	<b>AQ 5-PUSHBUTTON PANEL</b> 5-button function, suitable for the control units NS4 WV and NS4 WV-S with external ON / OFF switching in flush-mounted version. Cover for flush-mounted boxes 55 mm Ø	<b>CTM5T WV</b>	<b>51.01.325</b>	<b>155,-</b>

Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>AQ-S DAYLIGHT CONTROL (REVERSE PROPORTIONAL) 1-10 V</b></p> <p>Dimming control operating reverse proportional to the daylight</p> <p>Accessory: 1 daylight sensor, type LF/w</p>	<b>AQNP-S</b>	<b>50.14.130</b>	<b>320,-</b>
1-10				
	<p><b>AQ-S DAYLIGHT CONTROL (PROPORTIONAL) 1-10 V</b></p> <p>Dimming control operating proportional to the daylight.</p> <p>Accessory: 1 daylight sensor, type LF/w</p>	<b>AQP-S</b>	<b>50.14.131</b>	<b>320,-</b>
1-10				
	<p><b>AQ-S DOUBLE WAVE MOTION LIGHTING CONTROL</b></p> <p>The AQ-S Double wave motion lighting control operates two lighting groups individually up and down between 100 % and 0: While group 1 is in its brightest position group 2 arrives at 0 (and vice versa). The fade time can be set individually. For each group between 3 and 60 secs. with a potentiometer at the device. The module is suitable for the control of up to 200 dimmable ballasts or transformers with 1-10V interface or 40 AQ load dimmers with 0-10V interface.</p>	<b>AQE2-S</b>	<b>50.13.121</b>	<b>320,-</b>
1-10				
	<p><b>ELECTRONIC VOLTAGE MONITOR</b></p> <p>The Electronic Voltage Monitor is a control which automatically switches light circuits ON or OFF in dependence of different voltage inputs. It has two control inputs which can be used alternatively: Input voltage 1: phase-control (leading edge) mode Input voltage 2: D/C A LED indicates the respective control state. It is used for the direct switching of lighting groups.</p>	<b>SW</b>	<b>50.14.010</b>	<b>129,-</b>
	<p><b>SIGNAL AMPLIFIER</b></p> <p>The signal amplifier KSV-S is a current amplifier for the dimming control of a great number of electronic ballasts or electronic transformers with 1-10 V interface. It reduces the loading of a preceeded dimmer for a better utilizing of the dimmer capacity. The signal amplifier has the same input specification as the electronic ballasts and consequently also can be combined with dimmers for these ballasts or transformers. The maximum output loading of the KSV-S is 200 mA (for approx. 200 electronic ballasts).</p>	<b>KSV-S</b>	<b>50.13.300</b>	<b>92,-</b>

# ALTOQUICK dimmers and controllers






Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQ AUDITORIUM DIMMING CONTROL WITH IR- AND RADIO CONTROL MODULE FOR 3 CHANNELS</b>	<b>IRNV-3S</b>	<b>50.13.145</b>	<b>533,-</b>
	AQ Auditorium dimming control with IR- and radio control module for 3 Channels. For the control of a maximum of 3 light circuits with electronic ballasts or transformers with 1-10V interface or up to 3 ALTENBURGER load dimmers with 0-10V interface respectively with the function ON/OFF, Brighter-Darker. To be operated with pushbutton panels or / and handheld IR-or radio transmitters.			
	<b>AQ INFRARED CONTROL UNIT</b>	<b>IR-ST/S</b>	<b>50.13.142</b>	<b>235,-</b>
	AQ Infrared control unit for 5 channels, in connection with the control modules for load dimmers (0-10V) interface or with controls with 1-10V interface as well as for sun protections and ventilators with an extension range up to 35 channels.			
	<b>IR-SENSOR WITH ALUMINIUM COVER AND FRAME</b>	<b>IR-ES/R</b>	<b>50.13.143</b>	<b>50,-</b>
	<b>IR-SENSOR WITH PLASTIC COVER (NO PICTURE)</b>	<b>IR-E/S</b>	<b>50.13.041</b>	<b>43,-</b>
	<b>RADIO-RECEIVER</b>	<b>FU-E/S</b>	<b>52.10.000</b>	<b>86,-</b>
	Radio receiver for surface mounting or for installation in deep switch box, with flexible antenna of about 10cm, incl. cable.			
	<b>IR-TRANSMITTER HANDHELD</b>	<b>IR-S/S</b>	<b>50.13.060</b>	<b>74,-</b>
	IR-transmitter handheld with up to 35 channels. A smaller quantity of keys and labeling according to specification.			
	<b>HANDHELD RADIO-TRANSMITTER</b>	<b>FU-S/S</b>	<b>52.00.000</b>	<b>90,-</b>
	With up to 35 channels. A smaller quantity of keys according to the specification.			

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQ-S POTENTIOMETER CONTROL MODULE</b>	<b>AQS-S</b>	<b>50.13.112</b>	<b>153,-</b>
	<p>AQ-S Potentiometer control module for the control of max. 200 electronic ballasts or transformers with 1-10V interface to be operated with rotary or sliding potentiometers. In order to provide for a versatile operation the external control is made via DC 0-10 V or with an internal rotary potentiometer with rotary ON/OFF-switch.</p>			<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">0-10</div> <div style="border: 1px solid black; padding: 2px;">1-10</div> </div>
	<b>AQ-S AUDITORIUM DIMMING CONTROL 1-PUSHBUTTON 1-10V</b>	<b>NS1-S</b>	<b>50.13.115</b>	<b>179,-</b>
	<p>The AQ-S Auditorium dimming control NS1-S is suitable for dimmable electronic ballasts and electronic transformers with low-voltage interface of 1-10V. The NS1-S controls the brightness between 0..100% continuously only with a pushbutton and switches ON/OFF (1-pushbutton function).</p>			<div style="border: 1px solid black; padding: 2px;">1-10</div>
	<b>AQ-S AUDITORIUM DIMMING CONTROL 3-PUSHBUTTONS</b>	<b>NS2-SX</b>	<b>50.13.130</b>	<b>349,-</b>
	<p>The AQ-S Auditorium dimming control NS2-SX is suitable for the common control of up to 200 electronic ballasts or transformers with 1-10V interface with the following functions: 1 x BRIGHTER, 1 x DARKER 1 x ON/OFF</p>			<div style="border: 1px solid black; padding: 2px;">1-10</div>
	<b>AQ-S AUDITORIUM DIMMING CONTROL 4-PUSHBUTTONS 1-10 V</b>	<b>NS4-S</b>	<b>50.13.113</b>	<b>320,-</b>
	<p>The AQ-S Auditorium dimming control NS4-S type is suitable for dimmable electronic ballasts and electronic transformers with low-voltage interface of 1-10V. The NS4-S controls the brightness between 0..100% continuously and can be controlled with 4 pushbuttons (4-pushbutton function).</p>			<div style="border: 1px solid black; padding: 2px;">1-10</div>
	<b>AQ-S AUDITORIUM DIMMING CONTROL WITH 4 SCENE SELECTIONS 1-10V</b>	<b>NS4 WV-S</b>	<b>50.13.116</b>	<b>320,-</b>
	<p>The AQ-S Auditorium dimming control NS4WV-S type is suitable for dimmable electronic ballasts and electronic transformers with low-voltage interface of 1-10V. Up to 4 different light values can be selected via external buttons.</p>			<div style="border: 1px solid black; padding: 2px;">1-10</div>
	<b>AQ AUDITORIUM DIMMING CONTROL WITH 6 SCENE SELECTIONS</b>	<b>NS6 WV</b>	<b>50.13.218</b>	<b>425,-</b>
	<p>The AQ Auditorium dimming control NS6WV is suitable for the control of a maximum of 20 AQ load dimmers with the following functions: 6x Scene selection, 1x Brighter, 1x Darker, 1x ON, 1x OFF with the changeover interfaces of 0-10V (control of load dimmers) and 1-10V (control of electronic ballasts and transformers with 1-10V interface).</p>			<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">0-10</div> <div style="border: 1px solid black; padding: 2px;">1-10</div> </div>

# ALTOQUICK dimmers and controllers









Illustration	Description	Type	Order-No.:	EUR/piece
	<b>AQAD-S CONSTANT LIGHT CONTROL</b>	<b>AQAD-S</b>	<b>50.14.116</b>	<b>320,-</b>
	<p>AQAD-S Constant light control for electronic ballasts and transformers with 1-10V interface or for a maximum of 3 load dimmers with 0-10V interface for a smooth adjustment of artificial light to the daylight with ON/OFF switch with the possibility of an external setting of the light level to be kept constant with the pushbutton type DPUT-S.</p>			<div style="display: flex; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">0-10</div> <div style="border: 1px solid black; padding: 2px 5px;">1-10</div> </div>
	<b>PHOTOSENSOR WALL MOUNT</b>	<b>LF/W/D</b>	<b>51.21.010</b>	<b>39,30</b>
	<p>Photosensor for mounting outside or inside close to a window. Wall-mounted, swivelling, water protection IP 55.</p>			
	<b>PROTECTION BASKET</b>	<b>SK</b>	<b>51.21.090</b>	<b>47,-</b>
	<p>Protection basket for the LF/w/D against ball shot.</p>			
	<b>LIGHT VALUE CONTROL SWITCH FOR 1-CIRCUIT</b>	<b>LWS1</b>	<b>50.14.011</b>	<b>257,-</b>
	<p>Light value control switch for 1-circuit with light-value setting of 10-1000 lux and 200-20000 lux with switch state display.</p>			
	<b>LIGHT VALUE CONTROL SWITCH FOR 3-CIRCUITS</b>	<b>LWS3</b>	<b>50.14.016</b>	<b>352,-</b>
	<p>Light value control switch for 3-circuits with light-value setting of 10-1000 lux and 200-20000 lux with switch state display.</p>			
	<b>ELECTRONIC LUX INSTRUMENT TRANSFORMER FOR BUILDING MANAGEMENT SYSTEMS</b>	<b>LM3</b>	<b>50.14.102</b>	<b>882,-</b>
	<p>The lux-instrument transformer acquires with the light sensor the brightness per circuit and transforms it into a linear DC proportional to the brightness. Systems with photosensor-dependent controls for the connection of 3 photosensors type LF/w/D for 3 channels.</p>			<div style="border: 1px solid black; padding: 2px 5px;">0-10</div>

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>WALL-RECESSED DIMMER WITH ROTARY ON/OFF SWITCH 1-10 V</b>	<b>DPUO-S</b>	<b>50.50.020</b>	<b>28,80</b>
	Dimmer for electronic ballasts and transformers with 1-10V interface with 4mm shaft, without coverplate and knob.			1-10
	<b>WALL-RECESSED DIMMER WITH PUSH-CHANGEOVER SWITCH 1-10 V</b>	<b>DPUWO-S</b>	<b>50.50.021</b>	<b>28,80</b>
	Dimmer for electronic ballasts and transformers with 1-10V interface with 4mm shaft, without coverplate and knob.			1-10
	<b>IN WALL MOUNTING COVER</b>	<b>DA-UP</b>	<b>50.00.001</b>	<b>2,50</b>
	In wall mounting cover, white with rotary knob.			
	<b>ON WALL MOUNTING COVER</b>	<b>DA-AP</b>	<b>50.00.002</b>	<b>14,-</b>
	On wall mounting cover, white with rotary knob.			
	<b>DIN-RAIL MOUNTING COVER</b>	<b>DA-NV</b>	<b>50.00.003</b>	<b>6,-</b>
	DIN-Rail mounting cover, gray with rotary knob.			
	<b>AQ ROTARY POTENTIOMETER WITH SCALE</b>	<b>DPO</b>	<b>51.01.019</b>	<b>25,-</b>
	With rotary ON/OFF switch, knob and scale.			

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# TH-TS

## THYRISTOR-CONTROLLED POWER DIMMERS

Thyristor-controlled power dimmers with a load capacity up to 8 KW.

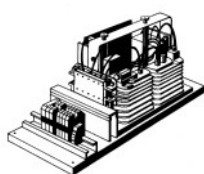


Illustration	Description	Type	Order-No.:	EUR/piece
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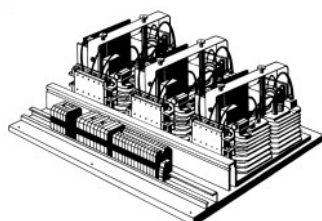
### TH-phase controlled (leading edge) dimmer

TH-phase controlled (leading edge) dimmer; Thyristor-controlled dimmers with antiparallel switched power Thyristors with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking.

The dimmers are suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps (with wire wound transformers), power LEDs and LED-converter.



170 x 365 x 155 mm



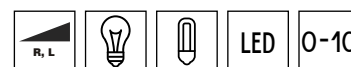
425 x 365 x 155 mm

1-phase TH-plug-in module with 0-10V interface: 230V/50Hz phase-controlled module

... UP TO 2 KW/KVA	TH 2 KW	51.02.000	273,-
... UP TO 3 KW/KVA	TH 3 KW	51.02.001	323,-
... UP TO 5 KW/KVA	TH 5 KW	51.02.002	439,-
... UP TO 8 KW/KVA	TH 8 KW	51.02.003	564,-

3-phase TH-plug-in module with 0-10V interface: 230/400V, 50Hz phase-controlled module

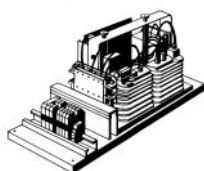
... UP TO 3X 2 KW/KVA	TH 3x2 KW	51.11.000	975,-
... UP TO 3X 3 KW/KVA	TH 3x3 KW	51.11.001	1.189,-
... UP TO 3X 5 KW/KVA	TH 3x5 KW	51.11.002	1.267,-
... UP TO 3X 8 KW/KVA	TH 3x8 KW	51.11.003	1.652,-



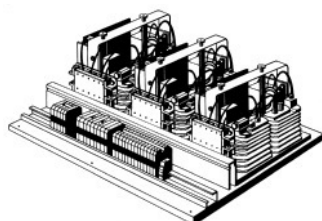
### TH-phase-interval controlled (trailing edge) dimmer

TH-phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking.

The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.



170 x 365 x 155 mm



425 x 365 x 155 mm

1-phase TH-plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TH 2 KW-0	51.02.100	396,-
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3-phase TH-plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	TH 3x2 KW-0	51.11.100	1.288,-
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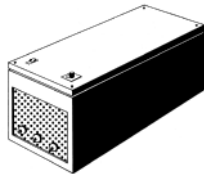
# TH - TH-0 Lighting Controls

Illustration	Description	Type	Order-No.:	EUR/piece
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## THG - phase controlled (leading edge) dimmer

THG - phase controlled (leading edge) dimmer; Thyristor-controlled dimmers with antiparallel switched power Thyristors with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking in surface-mounted or flush-mounted housing (please attach desired version to the type).

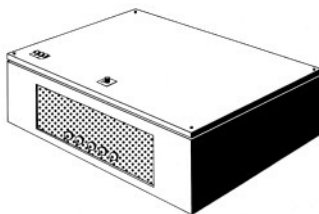
The dimmers are suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps (with wire wound transformers), power LEDs and LED-converter.



185 x 380 x 160 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	THG 2 KW	51.02.005	378,-
... UP TO 3 KW/KVA	THG 3 KW	51.02.006	480,-
... UP TO 5 KW/KVA	THG 5 KW	51.02.007	570,-
... UP TO 8 KW/KVA	THG 8 KW	51.02.008	699,-

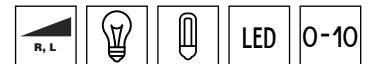


465 x 380 x 160 mm

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	THG 3x2 KW	51.11.005	1.155,-
... UP TO 3X 3 KW/KVA	THG 3x3 KW	51.11.006	1.391,-
... UP TO 3X 5 KW/KVA	THG 3x5 KW	51.11.007	1.519,-
... UP TO 3X 8 KW/KVA	THG 3x8 KW	51.11.008	1.899,-

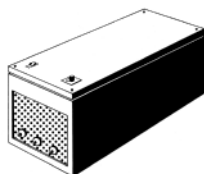
AP: surface-mounted, UP: flush-mounted



## THG-0 - phase-interval controlled (trailing edge) dimmer

THG-0 - phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking in surface-mounted or flush-mounted housing (please attach desired version to the type).

The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.



185 x 380 x 160 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	THG 2 KW-0	51.02.105	481,-
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465 x 380 x 160 mm

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	THG 3x2 KW-0	51.11.105	1.465,-
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AP: surface-mounted, UP: flush-mounted

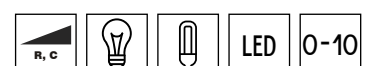
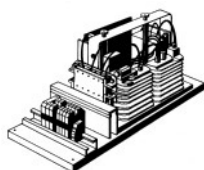


Illustration	Description	Typ	Order-No.:	EUR/piece
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### THD - phase controlled (leading edge) dimmer

THD - phase controlled (leading edge) dimmer; Thyristor-controlled dimmers with antiparallel switched power Thyristors with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking. Light control unit with direct on / off control, with loosely attached rotary potentiometer with pushbutton and scale.

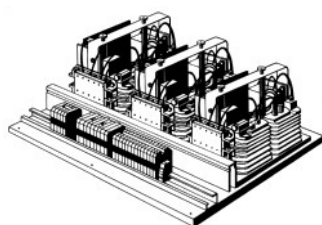
The dimmers are suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps (with wire wound transformers), power LEDs and LED-converter.



290 x 365 x 155 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

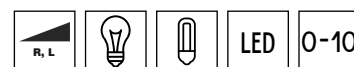
... UP TO 2 KW/KVA	THD 2 KW	51.30.000	353,-
... UP TO 3 KW/KVA	THD 3 KW	51.30.001	405,-
... UP TO 5 KW/KVA	THD 5 KW	51.30.002	528,-
... UP TO 8 KW/KVA	THD 8 KW	51.30.003	669,-



540 x 365 x 155 mm

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

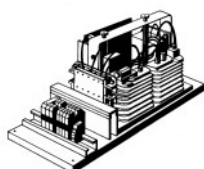
... BIS 3X 2 KW/KVA	THD 3x2 KW	51.30.005	1.088,-
... BIS 3X 3 KW/KVA	THD 3x3 KW	51.30.006	1.299,-
... BIS 3X 5 KW/KVA	THD 3x5 KW	51.30.007	1.391,-
... BIS 3X 8 KW/KVA	THD 3x8 KW	51.30.008	1.788,-



### THD-0 - phase-interval controlled (trailing edge) dimmer

THD-0 - phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking. Light control unit with direct on / off control, with loosely attached rotary potentiometer with pushbutton and scale.

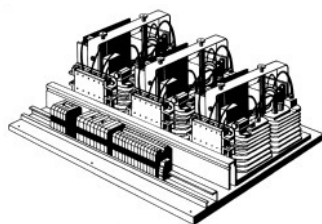
The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.



290 x 365 x 155 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

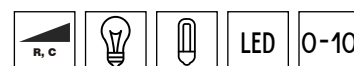
... UP TO 2 KW/KVA	THD 2 KW-0	51.30.100	457,-
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540 x 365 x 155 mm

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	THD 3x2 KW-0	51.30.105	1.398,-
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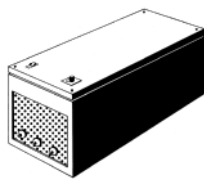
# THD - THD-0 Lighting Controls

Illustration	Description	Typ	Order-No.:	EUR/piece
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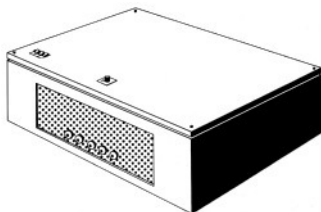
## THDG - phase controlled (leading edge) dimmer

THDG - phase controlled (leading edge) dimmer; Thyristor-controlled dimmers with antiparallel switched power Thyristors with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking in surface-mounted or flush-mounted housing (please attach desired version to the type) with direct on / off, with built-in circuit breaker and rotary potentiometer with push-button and scale.

The dimmers are suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps (with wire wound transformers), power LEDs and LED-converter.



330 x 380 x 160 mm



580 x 380 x 160 mm

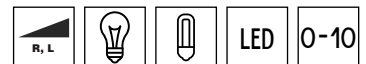
1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	<b>THDG 2 KW</b>	<b>51.31.000</b>	<b>452,-</b>
... UP TO 3 KW/KVA	<b>THDG 3 KW</b>	<b>51.31.001</b>	<b>514,-</b>
... UP TO 5 KW/KVA	<b>THDG 5 KW</b>	<b>51.31.002</b>	<b>659,-</b>
... UP TO 8 KW/KVA	<b>THDG 8 KW</b>	<b>51.31.003</b>	<b>797,-</b>

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	<b>THDG 3x2 KW</b>	<b>51.31.005</b>	<b>1.291,-</b>
... UP TO 3X 3 KW/KVA	<b>THDG 3x3 KW</b>	<b>51.31.006</b>	<b>1.503,-</b>
... UP TO 3X 5 KW/KVA	<b>THDG 3x5 KW</b>	<b>51.31.007</b>	<b>1.642,-</b>
... UP TO 3X 8 KW/KVA	<b>THDG 3x8 KW</b>	<b>51.31.008</b>	<b>2.034,-</b>

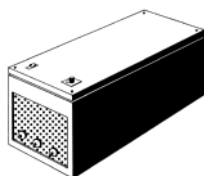
AP: surface-mounted, UP: flush-mounted



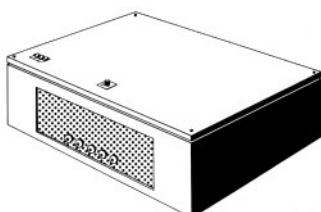
## THDG-0 - phase-interval controlled (trailing edge) dimmer

THDG-0 - phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking in surface-mounted or flush-mounted housing (please attach desired version to the type) with direct on / off, with built-in circuit breaker and rotary potentiometer with push-button and scale.

The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.



330 x 380 x 160 mm



580 x 380 x 160 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	<b>THDG 2 KW-0</b>	<b>51.31.100</b>	<b>556,-</b>
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3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	<b>THDG 3x2 KW-0</b>	<b>51.31.105</b>	<b>1.601,-</b>
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AP: surface-mounted, UP: flush-mounted

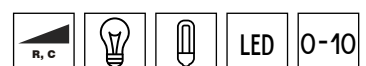


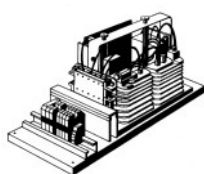
Illustration	Description	Type	Order-No.:	EUR/piece
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**TS - Auditorium phase controlled (leading edge) dimmer**

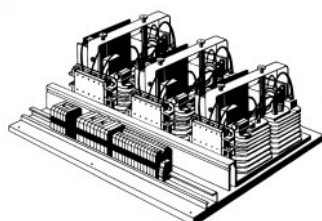
Auditorium dimmer (thyristor dimmers) in leading edge mode for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wound transformers as well as dimmable power LEDs and LED converters.

Pushbutton-controlled auditorium dimmer for switch cabinets, consisting of mounting plate with terminal block and plug-on power and functional part. Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection).



170 x 365 x 155 mm



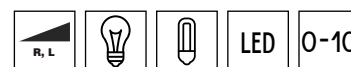
425 x 365 x 155 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TS 2 KW	51.04.000	774,-
... UP TO 3 KW/KVA	TS 3 KW	51.04.001	831,-
... UP TO 5 KW/KVA	TS 5 KW	51.04.002	927,-
... UP TO 8 KW/KVA	TS 8 KW	51.04.003	1.044,-

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	TS 3x2 KW	51.13.000	1.531,-
... UP TO 3X 3 KW/KVA	TS 3x3 KW	51.13.001	1.752,-
... UP TO 3X 5 KW/KVA	TS 3x5 KW	51.13.002	1.804,-
... UP TO 3X 8 KW/KVA	TS 3x8 KW	51.13.003	2.212,-

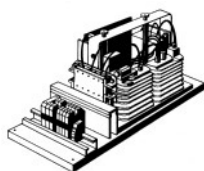


**TS-0 - Auditorium phase-interval controlled (trailing edge) dimmer**

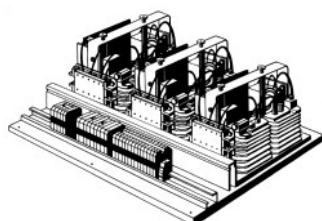
Auditorium phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking. The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.

Pushbutton-controlled auditorium dimmer for switch cabinets, consisting of mounting plate with terminal block and plug-on power and functional part. Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection).



170 x 365 x 155 mm



425 x 365 x 155 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TS 2 KW-0	51.04.100	878,-
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3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	TS 3x2 KW-0	51.13.100	1.841,-
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# TS - TS-0 Lighting Controls

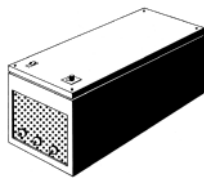
Illustration	Description	Type	Order-No.:	EUR/piece
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## TSG – Auditorium phase controlled (leading edge) dimmer

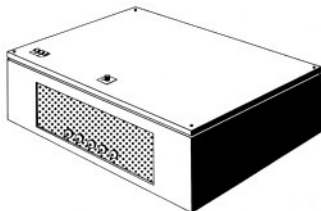
Auditorium dimmer (thyristor dimmers) in leading edge mode for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wound transformers as well as dimmable power LEDs and LED converters.

Pushbutton-controlled auditorium dimmer in surface-mounted or flush-mounted housing (please attach desired version to the type). Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection).



185 x 380 x 160 mm



465 x 380 x 160 mm

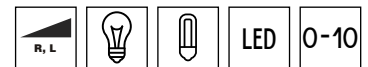
1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TSG 2 KW	51.04.005	879,-
... UP TO 3 KW/KVA	TSG 3 KW	51.04.006	937,-
... UP TO 5 KW/KVA	TSG 5 KW	51.04.007	1.056,-
... UP TO 8 KW/KVA	TSG 8 KW	51.04.008	1.143,-

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	TSG 3x2 KW	51.13.005	1.735,-
... UP TO 3X 3 KW/KVA	TSG 3x3 KW	51.13.006	1.954,-
... UP TO 3X 5 KW/KVA	TSG 3x5 KW	51.13.007	2.065,-
... UP TO 3X 8 KW/KVA	TSG 3x8 KW	51.13.008	2.431,-

AP: surface-mounted, UP: flush-mounted

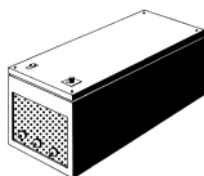


## TSG-0 – Auditorium phase-interval controlled (trailing edge) dimmer

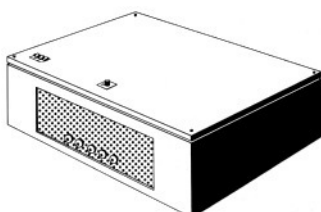
Auditorium phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking. The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.

Pushbutton-controlled auditorium dimmer in surface-mounted or flush-mounted housing (please attach desired version to the type). Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection).



185 x 380 x 160 mm



465 x 380 x 160 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TSG 2 KW-0	51.04.105	982,-
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3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	TSG 3x2 KW-0	51.13.105	2.045,-
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AP: surface-mounted, UP: flush-mounted

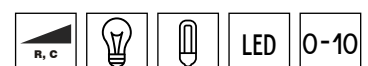




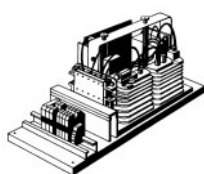
Illustration	Description	Type	Order-No.:	EUR/piece
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### TSD - Auditorium phase controlled (leading edge) dimmer

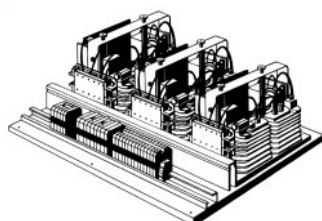
Auditorium dimmer (thyristor dimmers) in leading edge mode for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wound transformers as well as dimmable power LEDs and LED converters.

Pushbutton-controlled auditorium dimmer for switch cabinets, consisting of mounting plate with terminal block and pluggable power and functional part with direct on / off switching. Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection) On/Off.



290 x 365 x 155 mm



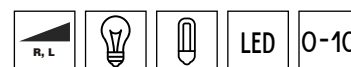
540 x 365 x 155 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	<b>TSD 2 KW</b>	<b>51.06.000</b>	<b>930,-</b>
... UP TO 3 KW/KVA	<b>TSD 3 KW</b>	<b>51.06.001</b>	<b>1.012,-</b>
... UP TO 5 KW/KVA	<b>TSD 5 KW</b>	<b>51.06.002</b>	<b>1.134,-</b>
... UP TO 8 KW/KVA	<b>TSD 8 KW</b>	<b>51.06.003</b>	<b>1.249,-</b>

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	<b>TSD 3x2 KW</b>	<b>51.15.000</b>	<b>1.883,-</b>
... UP TO 3X 3 KW/KVA	<b>TSD 3x3 KW</b>	<b>51.15.001</b>	<b>2.098,-</b>
... UP TO 3X 5 KW/KVA	<b>TSD 3x5 KW</b>	<b>51.15.002</b>	<b>2.185,-</b>
... UP TO 3X 8 KW/KVA	<b>TSD 3x8 KW</b>	<b>51.15.003</b>	<b>2.541,-</b>

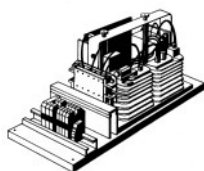


### TSD-0 - Auditorium phase-interval controlled (trailing edge) dimmer

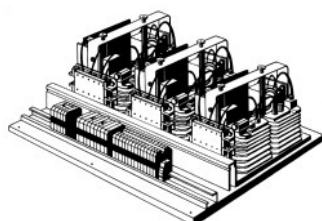
Auditorium phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking. The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.

Pushbutton-controlled auditorium dimmer for switch cabinets, consisting of mounting plate with terminal block and pluggable power and functional part with direct on / off switching. Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection) On/Off.



290 x 365 x 155 mm



540 x 365 x 155 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	<b>TSD 2 KW-0</b>	<b>51.06.100</b>	<b>1.034,-</b>
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3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	<b>TSD 3x2 KW-0</b>	<b>51.15.100</b>	<b>2.193,-</b>
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# TSD - TSD-0

## Lighting Controls

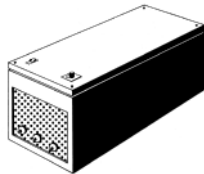
Illustration	Description	Type	Order-No.:	EUR/piece
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### TSDG - Auditorium phase controlled (leading edge) dimmer

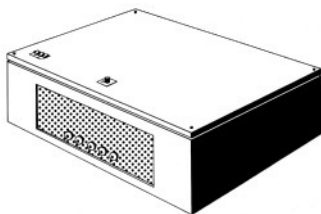
Auditorium dimmer (thyristor dimmers) in leading edge mode for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wound transformers as well as dimmable power LEDs and LED converters.

Pushbutton-controlled auditorium dimmer in surface-mounted or flush-mounted housing (please attach desired version to the type), consisting of mounting plate with terminal block and pluggable power and functional part with direct on / off switching. Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection) On/Off.



330 x 380 x 160 mm



580 x 380 x 160 mm

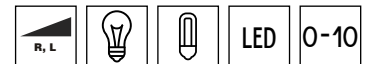
1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TSDG 2 KW	51.06.005	1.031,-
... UP TO 3 KW/KVA	TSDG 3 KW	51.06.006	1.146,-
... UP TO 5 KW/KVA	TSDG 5 KW	51.06.007	1.274,-
... UP TO 8 KW/KVA	TSDG 8 KW	51.06.008	1.401,-

3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	TSDG 3x2 KW	51.15.005	2.098,-
... UP TO 3X 3 KW/KVA	TSDG 3x3 KW	51.15.006	2.399,-
... UP TO 3X 5 KW/KVA	TSDG 3x5 KW	51.15.007	2.455,-
... UP TO 3X 8 KW/KVA	TSDG 3x8 KW	51.15.008	2.813,-

AP: surface-mounted, UP: flush-mounted

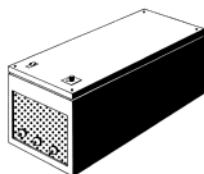


### TSDG-0 - Auditorium phase-interval controlled (trailing edge) dimmer

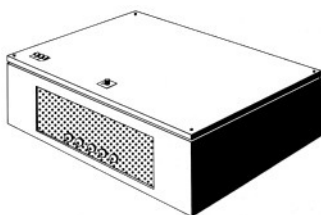
Auditorium phase-interval controlled dimmer, MOS-FET-controlled lighting control unit with integrated harmonics filter, integrated unbalance compensation and filter against lamps clinking. The dimmers are suitable for high-voltage halogen lamps, low-voltage halogen lamps (with electronic transformers), incandescent lamps, power LEDs and LED-Converter.

Pushbutton-controlled auditorium dimmer in surface-mounted or flush-mounted housing (please attach desired version to the type), consisting of mounting plate with terminal block and pluggable power and functional part with direct on / off switching. Controllable via control panels.

Pushbutton functions: Bright, Dark, Stop, Light value recall (preselection) On/Off.



330 x 380 x 160 mm



580 x 380 x 160 mm

1-phase plug-in module with 0-10V interface: 230V/50Hz phase-interval controlled module

... UP TO 2 KW/KVA	TSDG 2 KW-0	51.06.105	1.135,-
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3-phase plug-in module with 0-10V interface: 3x 230/400V, 50Hz phase-interval controlled module

... UP TO 3X 2 KW/KVA	TSDG 3x2 KW-0	51.15.105	2.399,-
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AP: surface-mounted, UP: flush-mounted

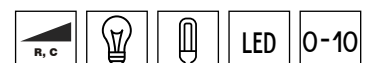
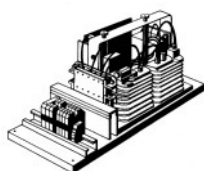




Illustration	Description	Type	Order-No.:	EUR/piece
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TH-EIB/P - Leading edge dimmer (phase-controlled) with integrated programmable KNX-Switch-Dim-Actuator, Backplate-mounted in cabinets (optional wall-mounted or wall-recessed housing) for the control of incandescent lamps, low-voltage halogen lamps with wire-wound transformers, high-voltage halogen lamps and dimmable power LEDs (230V).

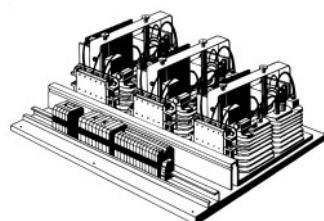
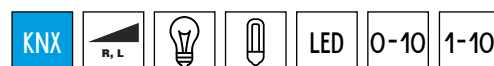
Backplate mounting design with mounting plate and terminal blocks, plug-in load- and control components. Lighting control unit with integrated programmable KNX-switch-dim-actuator, 0-10V/1-10V, and scene memory for up to 25 scenes.



170 x 365 x 155 mm

Single-phase TH-EIB / P plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 230 V, 50 Hz, phase control mode

... UP TO 2 KW/KVA	<b>TH-EIB/P 2 KW</b>	<b>80.02.000</b>	<b>585,-</b>
... UP TO 3 KW/KVA	<b>TH-EIB/P 3 KW</b>	<b>80.02.001</b>	<b>636,-</b>
... UP TO 5 KW/KVA	<b>TH-EIB/P 5 KW</b>	<b>80.02.002</b>	<b>752,-</b>
... UP TO 8 KW/KVA	<b>TH-EIB/P 8 KW</b>	<b>80.02.003</b>	<b>878,-</b>



425 x 365 x 155 mm

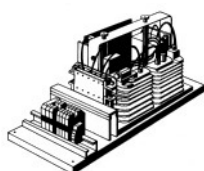
Three-phase TH-EIB / P plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 3x 230/400 V, 50 Hz, phase control mode

... UP TO 3X 2 KW/KVA	<b>TH-EIB/P 3X 2 KW</b>	<b>80.11.000</b>	<b>1.288,-</b>
... UP TO 3X 3 KW/KVA	<b>TH-EIB/P 3X 3 KW</b>	<b>80.11.001</b>	<b>1.503,-</b>
... UP TO 3X 5 KW/KVA	<b>TH-EIB/P 3X 5 KW</b>	<b>80.11.002</b>	<b>1.580,-</b>
... UP TO 3X 8 KW/KVA	<b>TH-EIB/P 3X 8 KW</b>	<b>80.11.003</b>	<b>1.965,-</b>



TH-EIB/P-0 - Trailing edge dimmer (phase-intervall) with integrated programmable KNX-Switch-Dim-Actuator, Backplate-mounted in cabinets (optional wall-mounted or wall-recessed housing) for the control of incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps and dimmable power LEDs (230V).

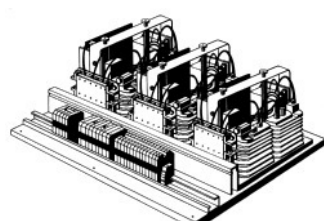
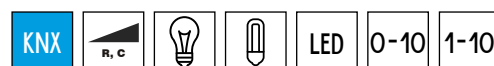
Backplate mounting design with mounting plate and terminal blocks, plug-in load- and control components. Lighting control unit with integrated programmable KNX-switch-dim-actuator, 0-10V/1-10V, and scene memory for up to 25 individual scenes.



170 x 365 x 155 mm

Single-phase TH-EIB / P-0 plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 230 V, 50 Hz, phase section mode

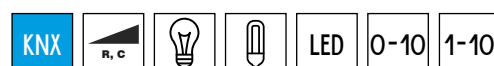
... UP TO 2 KW/KVA	<b>TH-EIB/P 2 KW-0</b>	<b>80.02.100</b>	<b>690,-</b>
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425 x 365 x 155 mm

Three-phase TH-EIB / P-0 plug-in module with KNX switching Dim actuator, 0-10V / 1-10V and scene memory for 25 scenes and cleaning light function: 3x 230/400 V-50 Hz, phase section mode

... UP TO 3X 2 KW/KVA	<b>TH-EIB/P 3X 2KW-0</b>	<b>80.11.100</b>	<b>1.602,-</b>
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# MULTI-SENSOR-DIMMER AND -SWITCH

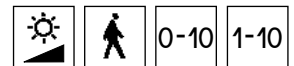
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Multi-Sensor dimmers and switches operating in dependence of daylight and motion.

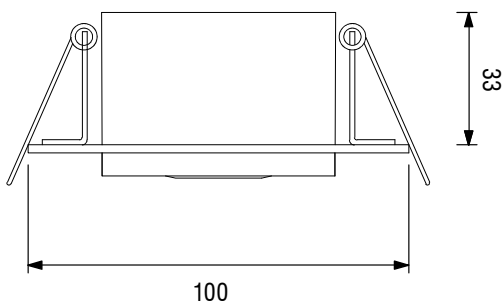
# Lighting sensors

## Lighting automation with multi-sensor lighting controls

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>MULTI-SENSOR-DIMMER</b> MSD - Multi-Sensor-Dimmer is a constant light controller with presence detection and set-point adjustment at the device or via an external pushbutton. Ceiling surface mounting design.	<b>MSD</b>	<b>50.13.500</b>	<b>86,-</b>
	<b>MULTI-SENSOR-DIMMER</b> MSD - Multi-Sensor-Dimmer is a constant light controller with presence detection and set-point adjustment at the device or via an external pushbutton. Round design.	<b>MSD/R</b>	<b>50.13.500R</b>	<b>105,-</b>
	<b>MULTI-SENSOR-DIMMER</b> MSD - Multi-Sensor-Dimmer is a constant light controller with presence detection and set-point adjustment at the device or via an external pushbutton. Square design.	<b>MSD/Q</b>	<b>50.13.500Q</b>	<b>105,-</b>



Supplement for all sensors with pre-assembled  
1.5 m long UV-resistant cable, 14, - Euro






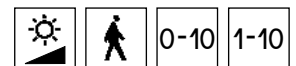
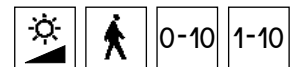
View with relaxed spring,  
Hole diameter 90mm.

The sensors in ceiling mounting also exist  
each consisting of a mounting plate and a functional part.

# Lighting sensors










## Lighting automation with multi-sensor lighting controls

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>MULTI-SENSOR-DIMMER</b> MSL - Multi-Sensor-Dimmer with preselectable minimum/maximum limitation of the light level and with 6 addition dim and switch functions. Ceiling surface mounting design.	<b>MSL</b>	<b>50.13.510</b>	<b>86,-</b>
	<b>MULTI-SENSOR-DIMMER</b> MSL - Multi-Sensor-Dimmer with preselectable minimum/maximum limitation of the light level and with 6 addition dim and switch functions. Round design.	<b>MSL/R</b>	<b>50.13.510R</b>	<b>105,-</b>
	<b>MULTI-SENSOR-DIMMER</b> MSL - Multi-Sensor-Dimmer with preselectable minimum/maximum limitation of the light level and with 6 addition dim and switch functions. Square design.	<b>MSL/Q</b>	<b>50.13.510Q</b>	<b>105,-</b>







# Lighting sensors

## Lighting automation with multi-sensor lighting controls

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>MULTI-SENSOR-SCHALTER MULTISWITCH</b>	<b>MS</b>	<b>50.13.535</b>	<b>65,-</b>
	<p>MS - Multi-Sensor-Switch is a daylight- and presence dependent working switch. Ceiling surface mounting design.</p>			 
	<b>MULTI-SENSOR-SCHALTER MULTISWITCH</b>	<b>MS/R</b>	<b>50.13.535R</b>	<b>84,-</b>
	<p>MS - Multi-Sensor-Switch is a daylight- and presence dependent working switch. Round design.</p>			 
	<b>MULTI-SENSOR-SCHALTER MULTISWITCH</b>	<b>MS/Q</b>	<b>50.13.535Q</b>	<b>84,-</b>
	<p>MS - Multi-Sensor-Switch is a daylight- and presence dependent working switch. Square design.</p>			 

# Lighting sensors



















## Lighting automation with multi-sensor lighting controls

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>IR MULTI-SENSOR-DIMMER</b> IR-MSD Multi-Sensor-Dimmer in ceiling surface mounting design and for the programming and for the selection of constant light values, lighting scenes and for the manual infrared-control with a handheld remote control. Ceiling surface mounting design.	<b>IR-MSD</b>	<b>50.13.540</b>	<b>130,-</b>
	<b>IR MULTI-SENSOR-DIMMER</b> IR-MSD Multi-Sensor-Dimmer in ceiling surface mounting design and for the programming and for the selection of constant light values, lighting scenes and for the manual infrared-control with a handheld remote control. Round design.	<b>IR-MSD/R</b>	<b>50.13.540R</b>	<b>148,-</b>
	<b>IR MULTI-SENSOR-DIMMER</b> IR-MSD Multi-Sensor-Dimmer in ceiling surface mounting design and for the programming and for the selection of constant light values, lighting scenes and for the manual infrared-control with a handheld remote control. Square design.	<b>IR-MSD/Q</b>	<b>50.13.540Q</b>	<b>148,-</b>
	<b>IR-HANDSENDER</b> IR-MSD Multi-Sensor-Dimmer in ceiling surface mounting design and for the programming and for the selection of constant light values, lighting scenes and for the manual infrared-control with a handheld remote control. Ceiling surface mounting design.	<b>IR-TM</b>	<b>50.13.544</b>	<b>155,-</b>














# Lighting sensors

## Lighting automation with multi-sensor lighting controls

Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>KNX – MULTI-SENSOR-DIMMER</b></p> <p>Daylight- and presence depended working KNX-Multi-Sensor-Dimmer. In combination with KNX-switch actuator also heating, air-conditioners or fans can presence dependently be switched. Via the 1-10V interface electronic ballasts or transformers (with 1-10V interface) can be controlled. The active 0-10V interface is suitable for the control of load dimmers. Set-point adjustments can be carried out directly at the IB-MSD or via the ETS software as saved values of the objects. The constant light value can be furthermore programmed via a pushbutton panel which is also suitable for manual dimming with the functions On/Off - Brighter/Darker.</p> <p>Ceiling surface mounting design.</p>	<b>IBMSD</b>	<b>80.14.800</b>	<b>190,-</b>
    				
	<p><b>KNX – MULTI-SENSOR-DIMMER</b></p> <p>As before, but in:</p> <p>Ceiling mounting with round cover, color white.</p> <p>Extremely flat designs: max. 8 mm. With mounting brackets.</p>	<b>IBMSD/R</b>	<b>80.14.800R</b>	<b>209,-</b>
    				
	<p><b>KNX – MULTI-SENSOR-DIMMER</b></p> <p>As before, but in:</p> <p>Ceiling mounting with square cover, color white.</p> <p>Extremely flat designs: max. 8 mm. With mounting brackets.</p>	<b>IBMSD/Q</b>	<b>80.14.800Q</b>	<b>209,-</b>
    				

# Lighting sensors

## Lighting automation with multi-sensor lighting controls

Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>KNX – MULTI-SENSOR-CONTROLLER IBMSC-NV</b></p> <p>KNX Multi-Sensor-Controller, The controller has the same functions as the Multi-Sensor IBMSD, it can however be connected with 6 IBMSD sensors for the extension of the range of motion detection. The sensors are not including the IBMSD control electronic. This is included in the controller IBMSC-NV. Its switch capacity is 16A. If one sensor recognizes a presence lighting in the range of detection of all connected sensors is switching ON. Each sensor identifies ,his' light level, and all connected sensors are computing a mixed light level which is the light level being kept constant.</p> <p>Optional the functions ,presence detection' or ,daylight dependent constant light control' can be eliminated through the ETS software so that just one function is active.</p> <p>The sensors are wired in a conventional mode. Optional the range of detection also can be extended with the combination of up to 64 IBMSD Multi-Sensor-Controls at the KNX bus.</p>	<b>IBMSC-NV</b>	<b>80.14.810</b>	<b>222,-</b>
  				
	<p><b>MULTI-SENSOR</b></p> <p>Multi-Sensor - Light and Motion (ceiling surface mounting) for daylight dependent constant light control suitable in connection with DALI-Controller-Basic (DCB NV), DALI-Dim-Converter-Control (DC NV) and IBMSC-NV.</p> <p>Ceiling surface mounting design.</p>	<b>LBS/d</b>	<b>51.21.031</b>	<b>50,-</b>
 				
	<p><b>MULTI-SENSOR</b></p> <p>Multi-Sensor - Light and Motion (ceiling surface mounting) for daylight dependent constant light control suitable in connection with DALI-Controller-Basic (DCB NV), DALI-Dim-Converter-Control (DC NV) and IBMSC-NV.</p> <p>Ceiling recessed mounting design with round cover, color white.</p> <p>Extremely flat design, height max. 8 mm.</p> <p>With mounting spring clamps.</p>	<b>LBS/d/R</b>	<b>51.21.031R</b>	<b>69,-</b>
 				
	<p><b>MULTI-SENSOR</b></p> <p>Multi-Sensor - Light and Motion (ceiling surface mounting) for daylight dependent constant light control suitable in connection with DALI-Controller-Basic (DCB NV), DALI-Dim-Converter-Control (DC NV) and IBMSC-NV.</p> <p>Ceiling recessed mounting design with square cover, color white.</p> <p>Extremely flat design, height max. 8 mm.</p> <p>With mounting spring clamps</p>	<b>LBS/d/Q</b>	<b>51.21.031Q</b>	<b>69,-</b>
 				



# Lighting sensors

## Lighting automation with multi-sensor lighting controls


Illustration	Description	Type	Order-No.:	EUR/piece
	<p><b>MULTI-SENSOR-DIMMER</b></p> <p>AQ-MSS - Multi-Sensor-Dimmer (DIN rail mount) Controller for the connection of up to 6 Multi-Sensors. With selector switch for 6 functions and manual control with the functions BRIGHTER-DARKER-ON/OFF. The distance between the controller and the sensors can be up to 100 m.</p>	<b>AQ-MSS</b>	<b>50.14.140</b>	<b>167,-</b>
<div style="display: flex; justify-content: flex-end; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">0-10</div> <div style="border: 1px solid black; padding: 2px 5px;">1-10</div> </div>				
	<p><b>MULTI-SENSOR ZUM AQ-MSS/KMSS</b></p> <p>Multi-Sensor in downlight housing with swiveling suspension for Altenburger Multi-Sensor-Dimmers. Ceiling recessed mounting design.</p>	<b>LB/k</b>	<b>51.21.037</b>	<b>82,-</b>
	<p><b>MULTI-SENSOR ZUM AQ-MSS/KMSS</b></p> <p>Multi-Sensor for flush-mounted boxes, with cover and frame for Altenburger Multi-Sensor-Dimmers.</p>	<b>LB/b</b>	<b>51.21.036</b>	<b>55,-</b>
	<p><b>MULTI-SENSOR ZUM KMSS/AQ-MSS</b></p> <p>Multi-sensor-dimmers preferably to be fitted to floorstanding lamps.</p>	<b>LBS/e</b>	<b>51.21.030</b>	<b>45,-</b>
	<p><b>MULTI-SENSOR-DIMMER</b></p> <p><b>KMSS</b></p> <p>Multi-Sensor-Control KMSS for an installation into light fittings (1-10V) and up to three Multi-Sensors.</p> <ul style="list-style-type: none"> <li>• up to 3 Sensors (LBS/e)</li> <li>• 0-10 / 1-10V interface 1-10V: -100mA DC / 0-10V: +1,5mA DC</li> <li>• Switch contact: 5A (ohmic)</li> </ul>	<b>KMSS</b>	<b>50.13.320</b>	<b>65,80</b>
<div style="display: flex; justify-content: flex-end; gap: 10px;"> <div style="border: 1px solid black; padding: 2px 5px;">0-10</div> <div style="border: 1px solid black; padding: 2px 5px;">1-10</div> </div>				

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# DIMMER AND SPEED CONTROLLER

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Dimmers in the power range up to 800 W / VA Flush-mounted, surface-mounted DIN-Rail housing

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>EHR TRAILING EDGE DIMMER</b>	<b>15-350W</b>	<b>50.30.110</b>	<b>56,-</b>
	EHR Trailing Edge Dimmer (phase-intervall) 15-350W with push-changeover switch in wall-recessed design. Dimmer for the control of incandescent lamps, low-voltage halogen lamps via electronic transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter. Potentiometer shaft Ø 4mm (with fitting sleeve for 6mm).			
			   	
	<b>EHR LEADING EDGE DIMMER</b>	<b>60-400W</b>	<b>50.03.102</b>	<b>20,80</b>
	EHR Leading Edge Dimmer (phase-controlled) 60-400W with push-changeover switch in wall-recessed design. Dimmer for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter. Potentiometer shaft Ø 4mm (with fitting sleeve for 6mm).			
			  	
	<b>EHR LEADING EDGE DIMMER</b>	<b>15-500W</b>	<b>50.20.102</b>	<b>47,-</b>
	EHR Leading Edge Dimmer (phase-controlled) 15-500W with push-changeover switch in wall-recessed design. Dimmer for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter. Potentiometer shaft Ø 4mm (with fitting sleeve for 6mm).			
			   	
	<b>EHR LEADING EDGE DIMMER</b>	<b>60-600W</b>	<b>50.04.101</b>	<b>26,40</b>
	EHR Leading Edge Dimmer (phase-controlled) 60-600W with push-changeover switch in wall-recessed design. Dimmer for the control of incandescent lamps via wire-wound transformers, low-voltage halogen lamps, high-voltage halogen lamps as well as Power-LEDs and LED converter. Potentiometer shaft Ø 4mm (with fitting sleeve for 6mm).			
			  	
	<b>EHR LEADING EDGE DIMMER</b>	<b>60-800W</b>	<b>50.05.101</b>	<b>36,-</b>
	EHR Leading Edge Dimmer (phase-controlled) 60-800W with push-changeover switch in wall-recessed design. Dimmer for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs and LED converter. Potentiometer shaft Ø 4mm (with fitting sleeve for 6mm).			
			  	
	<b>EHR LEADING EDGE DIMMER</b>	<b>60-800VA</b>	<b>50.06.101</b>	<b>47,80</b>
	EHR Leading Edge Dimmer (phase-controlled) 60-800VA with push-changeover switch in wall-recessed design. Dimmer for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs, LED converter and luminescent screen tubes (26+38mm Ø). Potentiometer shaft Ø 4mm (with fitting sleeve for 6mm).			
			   	

# EHR DIMMER

Illustration	Description	Type	Order-No.:	EUR/piece
	<b>EHR MOTOR SPEED CONTROL</b>	<b>60-800VA</b>	<b>50.06.101</b>	<b>47,80</b>
	EHR Leading Edge Dimmer (phase-controlled) 60-800VA with push-changeover switch in wall-recessed design. Dimmer for the control of incandescent lamps, low-voltage halogen lamps via wire-wound transformers, high-voltage halogen lamps as well as Power-LEDs, LED converter and luminescent screen tubes (26+38mm Ø). Potentiometer shaft Ø 4mm (with fitting sleeve for 6mm).			
			   	
	<b>IN WALL COVER</b>	<b>DA-UP</b>	<b>50.00.001</b>	<b>2,50</b>
	In wall mounting cover, white with rotary knob			
	<b>ON WALL COVER</b>	<b>DA-AP</b>	<b>50.00.002</b>	<b>14,-</b>
	On wall mounting cover, white with rotary knob			
	<b>DIN-RAIL COVER</b>	<b>DA-NV</b>	<b>50.00.003</b>	<b>6,-</b>
	DIN-Rail mounting cover, gray with rotary knob			



**ALTENBURGER**

ELECTRONIC GMBH

ALTENBURGER ELECTRONIC GMBH

Schloßweg 5

D-77960 Seelbach

Germany

Telefon +49 78 23 / 5 09-0

Telefax + 49 78 23 / 5 09 97

email: [info@altenburger.de](mailto:info@altenburger.de)

[www.altenburger.de](http://www.altenburger.de)



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