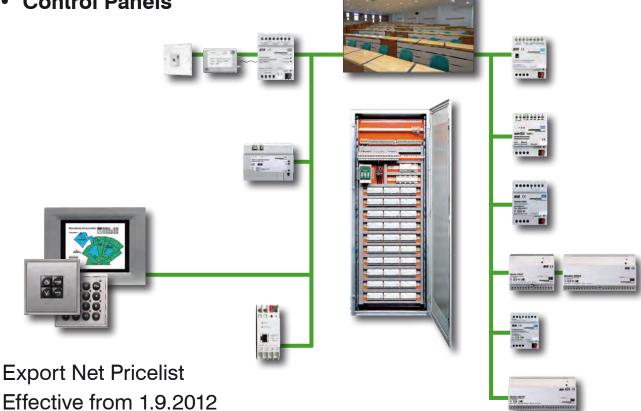


ALTENBURGER ELECTRONIC GMBH

ALTENBURGER Lighting Controls

- KNX-Lighting Controls
- DALI-Lighting Controls
- Multi-Sensor-Dimmers and Switches
- ALTOQUICK-Dimmers for DIN-rail mounting
- Dimmers for Power-LED's
- Thyristor-controlled High-Load-Dimmers
- THYRODYN Stage Lighting Control Systems
- Control Panels



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ELECTRONIC GMBH



KNX-Programmable

Lighting Control Systems



The system survey illustrates the interaction between the various KNX-compounds:

- KNX-dim-switch actuators for 1-10V/0-10V for the direct control of electronic ballasts for fluorescent lamps and electronic transformers with 1-10V interface for low-voltage halogen-lamps as well as for ALTENBURinfrared-GER dimmers with 0-10V interface.
- DALI/KNX-dim-switch actuators with DALI-interface for the direct control of electronic ballasts for fluorescent lamps and of electronic transformers for low-voltage halogen-lamps with DALI interface.
- KNX-dimmers with integrated dim actuators phase-controlled and phaseinterval-controlled load-dimmers for incandescent lamps, high-voltage halogen-lamps and low-voltage halogen-lamps with wire-wound and electronic transformers.
- Infrared- and radio handheld remote controls, including decoders for programming, operating and scene selection.
- Pushbutton panels and touch-panels for programming, operating and scene selection If specified with extended functionality, e.g. layouts, integrated lamps, additional control functions, etc.



KNX-lighting controls with touch-panels, visualizations, pushbutton panels for:

- switching, dimming, light-level and fade-time settings,
- internal scene memory for up to 25 scenes,
- scene sequence controls, individual scenes can be combined to an automatic sequence, e.g. RGB-color control (3 devices are required),
- cleaning and pass-through/corridor light function,
- shutters.



communication with the KNX-bus, e.g. via Ethernet, USB, etc.

or radio-remote

9

- integration and connection of other bus-technologies to KNX-bus, e.g. DALI, LON, DMX, etc.
- remote maintenance



KNX-bus

combined infrared-

and radio-decoder

.....

....

KNX-power supply

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System Survey KNX-Programmable Lighting Controls





Dimmer rack cabinet with peripheral devices

Programmable KNX-Dim-Switch-Actuator for 1-10V/0-10V

Type: IBDA-KP

- 00000000 E/3
- Direct control (broadcast) of 1-10V electronic ballasts and electronic transformers with 1-10V interface.
- control of ALTENBURGER load-dimmers Types ALTOQUICK and TH via the 0-10V interface with load capacities of up to 8 kW or 3x 8 kW,
- the before mentioned load-dimmers are also available with integrated programmable dim-switch-actuators, Type ALTODIM/P and TH-EIB/P.

Programmable DALI/KNX-Dim-Switch-Actuator



Type: IBDA-DP

Common controls of up to 100 DALI-ballasts and DALI-transformers in the broadcast mode.

Programmable KNX-Dimmers with integrated KNX-Dim-Switch-Actuators operating in the phase-control mode (leading edge)

CI

ALTODIM/P DIN-rail dimmers with load capacities from 600 to 2000 W/VA

- Suitable for incandescent lamps and high-volt halogen-lamps,
- low-voltage halogen-lamps with wire-wound transformers,

neon lamps.

Type: IBDA600/P

Type: IBDA1300/P

Type: IBDA2000/P



Programmable KNX-Dimmers with integrated KNX-Dim-Switch-Actuator operating in the phase-interval-control mode (lagging edge)



ALTODIM-0/P DIN-rail dimmers with load capacities of 600 and 1400 W/VA.

Suitable for incandescent lamps, high-voltage halogen-lamps,

Type: IBDA600-0/P

low-voltage halogen-lamps with electronic transformers.

. Type: IBDA1400-0/P



Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	1-pushbutton panel	NT 1 SO	80.14.540	8,60
	customary, any make (non-KNX) in o ALTENBURGER EIB/KNX load dimme switch dim-actuator with 0-10V or 1- Type IBDA/KP (s. page 11) or with th Dim-Actuator Type IBDA-DP (s.page Functions: BRIGHTER-DARKER-ON/OFF. The last light level being set before so achieved again after switching ON.	connection with an r (ALTODIM, s.page 9), 10V interface, e DALISwitch- 11).		
	3-pushbutton panel	NT 3 SO	80.14.541	155,–
	with integrated bus-coupling unit in of ALTENBURGER EIB/KNX-dimmers ar dim-actuators as referred to under pa Pushbutton functions: BRIGHTER-DARKER-ON/OFF. Suitable in connection with EIB-proje Optional: LED indication for ON.	nd with switch anel type NT 1.		
	4-pushbutton panel	NT 4 SO	80.14.542	176,-
	with integrated bus-coupling unit wit 2 circuits, each one ON/BRIGHTER a or 1 circuit ON/BRIGHTER and DARKER 1x shutter, open/close optional: other pushbutton functions	nd DARKER/OFF		
	Suitable EIB/KNX dimmers as under	туре мтт		
	5-pushbutton panel	NT 5 SO	80.14.543	242,-
	with integrated bus-coupling unit wit 4xScenes 1xON/OFF with LED-back indication for 2 circuits BRIGHTER/DARKER an Optional: other pushbutton functions Suitable EIB/KNX dimmers as under t	d 1xMaster control ON/OF	F	

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	6-pushbutton panel	NT 6 SO	80.14.544	253,-
	with integrated bus-coupling unit in	connection with		
	ALTENBURGER EIB/KNX-dimmers a	nd with switch		
	dim-actuators as referred to under p	anel type NT 1.		
3 4	for 6 switch or dim-functions			
5 6	6x Scenes			
	or			
	5x Scenes, 1x On/OFF			
	Optional: other pushbutton functions outside lighting, door opener/interloc			

Optional: with or without LED back indication

E/A

Programmable scene selector panels	Mini FIB6/PRO	80.14.510	334,-
in combination with programmable ALTENBUF EIB/KNX load dimmers (ALTODIM/P – see pag switch dim-actuators 0-10 V or 1-10V interfac s.page 11) or with EIB/KNX DALI-Switch-Dim-	ge 9 and 10), e (type IBDA-KP		
IBDA/DP (s.page 11). Pushbutton functions: 6xScene selection (with LED indication) 1xBRIGHTER 1x DARKER 1xON/OFF (with LED indication) 1xProgramming (with LED indication) Other pushbutton functions optional:			
EIB/KNX Programmable scene selec- tor panel, 81 x 81 mm	Mini FIB12/PRO	80.14.520	418,-
For 1-gang boxes DIN 55 mmØ flat design (h=	=12mm)		
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			

Abbildung	Kurzbeschreibung	Тур	l BestNr.	Preis/Stück (Euro)
	Programmable EIB/KNX control panels	FIB12w	80.14.531	496,-
	With the functions: 12 x Scenes with LED-indication 1 x BRIGHTER 1 x DARKER			
	1 x ON/OFF with LED-indication 1 x Programming with LED-indication			
	Optional: with interlock key switch.			
	Wall-recessed housing (WxHxD)= 200 x10 Panel plate: (WxH)=220 x120 mm	0x80mm		
	EIB/KNX light-value control switch IBLWS 3 operating in dependence of the daylight	IB-LWS3	80.14.016	364,-
	The IBLWS 3 switches 3 connected light cir ON and OFF. The low-voltage signals from a the building or close to a window are proces the set light levels. The light levels for each between 20 and 2000 lux and between 200 rameter it can be decided if the switch teleg levels have exceeded or fallen below.	light sensor bein ssed by the IBLWS channel can be se and 20000 lux. V	g mounted outside S 3 according to et at the module Vith the ETS pa-	
	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 sv channels	vitch ON/OFF leve	ls for each of the 3	
	2) 3 LED: display for the switch state (lighti	ng up if lamps are	e switched ON)	
	Photosensor for the light-value control switch	LF/w/D	51.21.010	39,30
	Water proof (IP 55), swivelling for a 2-hole- or inside close to a window. Suitable in con channel EIB/KNX Light-value control switch	nection with the 3		
	Protection basket for the LF/w/D	SK	51.21.090	47,-
	protection basket			

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
mustration	opeonication	լյիշ		(Euro)
	ALTODIM 600-0	IBDA 600-0	80.13.061	142,-
	Phase-interval-controlled load-dimmer (lagg nal pushbutton control for low-voltage halo mers, incandescent lamps and high-voltag VA (with automatic overload protection) and	gen lamps with ele e halogen lamps fo	ctronic transfor- r up to 600 W/	
••••	Without internal scene memory.			
	ALTODIM 1400-0	IBDA 1400-0	80.13.064	305,-
	Phase-interval-controlled load-dimmer (lagg nal pushbutton control for low-voltage halo mers, incandescent lamps and high-voltage VA (with automatic overload protection) and	gen lamps with ele e halogen lamps for	ctronic transfor- up to 1400 W/	
	Without internal scene memory.			
	ALTODIM 600	IBDA 600	80.13.065	142,-



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l	ALTODIM 600	IBDA 600	80.13.065	142,
	Phase-controlled load-dimmer (leading-edge	mode) with ex	ternal pushbutton	
	control for incandescent lamps, high-voltage	halogen lamps,	low-voltage halo-	
	gen lamps with wire-wound transformers and	l neon lamps fo	or up to 600 W/VA	
	(with automatic overload protection) and for Pe	ower-LEDs (230) V).	

Without internal scene memory.

ALTODIM 1300	IBDA 1300	80.13.062	207,-
Phase-controlled load-dimmer (leading-ed	dge mode) with ext	ernal pushbutton	
control for incandescent lamps, high-volta gen lamps with wire-wound transformers a	• • •	•	
(with automatic overload protection) and fo	or Power-LEDs (230	V).	

Without internal scene memory.

ALTODIM 2000	IBDA 2000	80.13.063	305,-
Phase-controlled load-dimmer (leading-ed	lge mode) with ext	ernal pushbutton	
control for incandescent lamps, high-volta	ige halogen lamps, l	ow-voltage halo-	
gen lamps with wire-wound transformers a	and neon lamps for (up to 2000 W/VA	
(with automatic overload protection) and fo	or Power-LEDs (230	V).	

Without internal scene memory.

	ALTODIM 1500 U	IBDA 1500 U	80.13.070	311,-
	Universal-dimmer (with automatic load-detect	tion of leading- or t	railing-/lagging-	
	edge control mode) for electronic transformers	s, incandescent lan	nps, low-voltage	
¢	halogen-lamps with conventional transformer	s (inductive) for u	p to 1500 W/VA	
	(with automatic overload protection) and for d	immable Power-LE	EDs (230 V).	

Without internal scene memory.

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	ALTODIM 600-0/P	IBDA 600-0/P	80.13.161	205,-

Phase-interval-controlled load-dimmer (lagging-/trailing-edge mode) with inte-
grated 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.

ALTODIM 1400-0/P	IBDA	80.13.164	368,-
	1400-0/P		



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.

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Alter Sec.P	-
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ALTODIM 600/P	IBDA 600/P	80.13.165	205,-
Phase-controlled load-dimmer (leading-edge i	mode) with integr	ated scene me-	
mory (for up to 25 scenes) and with external pu	shbutton control f	for incandescent	
lamps, high-voltage halogen lamps, low-voltag	e halogen lamps v	with wire-wound	
transformers and neon lamps for up to 600 $\ensuremath{\text{W}}$	VA (with automat	tic overload pro-	
tection) and for Power-LEDs (230 V).			

IBDA 1300/P

80.13.162

270,-

With internal scene memory for up to 25 individual scenes.

ALTODIM 1300/P

	•
	EIB (
Phaseneous and Tablemen	Per 60
01001	ACTINGUES

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.

	ALTODIM 2000/P	IBDA 2000/P	80.13.163	368,-
	Phase-controlled load-dimmer (leading-edge	mode) with integr	ated scene me-	
	mory (for up to 25 scenes) and with external p	ushbutton control f	or incandescent	
818 <¢	lamps, high-voltage halogen lamps, low-voltag	ge halogen lamps v	vith wire-wound	
	transformers and neon lamps for up to 200	0 W/VA (with auto	omatic overload	
	protection) and for Power-LEDs (230 V).			

With internal scene memory for up to 25 individual scenes.

0108 a

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Programmable KNX-Switch-Dim-Actuator	IBDA-KP	80.14.132	229,-
Comparison of the second	Programmable KNX-Switch-Dim-Act to 25 scenes with preselectable fade 0-10V/1-10V-interface	•		
Programmer Schalt-Dimm-Aktor Programmer Schalt-Dimm-Aktor Programmer Sankt-Dimm-Aktor Type: IBDA-KP Order-no.: 80.14.132 Phys.Adc:	 For the realization of convenienc pushbutton panels, touch panels for switching, dimming, cross-fa 	s, visualizations, layout-ta	ableaus, etc.	
••••	 times, scene sequence managements, infrared and radio remote control 	,		

Programmable	IBDA-DP	80.14.170	293,-
KNX/DALI-Switch-Dim-Actuator			

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 switchdim-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-dimactuators 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.

Daylight- and presence dependent working KNX-Multi-Sensor-Dimmers and KNX-Multi-Sensor-Controllers see page 31.



				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

TH-EIB/P - Phase-controlled load-dimmers (leading-edge mode) with integrated programmable KNX-Switch-Dim-Actuator

ifor backplate mounting in cabinets (optional: in wall recessed or surface mounting design), for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers or Power-LEDs (230 V).

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.

Single-phase TH-ElB/P-plug-in module with integrated, programmable KNX-Switch-Dim-Actuator, 0-10V/1-10V, and scene memory for up to 25 scenes: 230 V/AC, 50 Hz, leading-edge mode.

bis 2 kW/kVA	TH-EIB/P 2 kW	80.02.000	585,-
bis 3 kW/kVA	TH-EIB/P 3 kW	80.02.001	636,-
bis 5 kW/kVA	TH-EIB/P 5 kW	80.02.002	752,-
bis 8 kW/kVA	TH-EIB/P 8 kW	80.02.003	878,-

Triple-phase TH-EIB/P-plug-in module with integrated, programmable KNX-Switch-Dim-Actuator, 0-10V/1-10V, and scene memory for up to 25 scenes: 3x 230/400 V/AV, 50 Hz, leading-edge mode.



bis 3x 2 kW/kVA	TH-EIB/P 3x2 kW	80.11.000	1.288,-
bis 3x 3 kW/kVA	TH-EIB/P 3x3 kW	80.11.001	1.503,-
bis 3x 5 kW/kVA	TH-EIB/P 3x5 kW	80.11.002	1.580,-
bis 3x 8 kW/kVA	TH-EIB/P 3x8 kW	80.11.003	1.965,-

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

TH-EIB/P-0 · Phase-controlled load-dimmer (trailing-/lagging-edge mode) with integrated programmable KNX-Switch-Dim-Actuator

for backplate mounting in cabinets (optional: in wall recessed or surface mounting design), for incandescent lamps, low-voltage halogen lamps with electronic transformers or Power-LEDs (230 V).

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.

Single-phase TH-EIB/P-O-plug-in module with integrated, programmable KNX-Switch-Dim-Actuator, 0-10V/1-10V, and scene memory for up to 25 scenes: 230 V/AC, 50 Hz, trailing-/lagging-edge mode.

TH-EIB/P 2 kW-0

80.02.100

690.-

	Í
•	

... bis 2 kW/kVA

Triple-phase TH-EIB/P-O-plug-in module with integrated, programmable KNX-Switch-Dim-Actuator, 0-10V/1-10V, and scene memory for up to 25 scenes: 3x 230/400 V/AV, 50

Dim-Actuator, 0-10V/1-10V, and scene memory for up to 25 scenes: 3x 230/400 V/AV, 50 Hz, trailing-/lagging-edge mode.

bis 3x 2 kV	V/kVA	TH-EIB/P 3x2 kW-0	80.11.100	1.602,-
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Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Infrared-Handheld-Programmer	IR/PRO	50.13.552	163,-
	Radio-Handheld-Programmer	FU/PRO	50.13.547	163,-
REProgrammer Transactions	Infrared- and radio remote controls for prospective scenes. The assignment of keys is similar button panels.			
	Infrared-Handheld-Controller	IR 12	50.13.548	229,-
	Infrared-Handheld-Controller	IR 6	50.13.549	185,–
	Infrared remote controller for the selection	of 12 (IR12) or 6 (II	R6) lighting scenes.	
102 102 103 103	Radio-Handheld-Controller	FU 12	50.13.550	229,-

Radio-Handheld-Controller FU 6 50.13.551 185,-Radio remote controller for retrieval of 12 (IR12) or 6 (IR6) lighting scenes.

The handheld remote programmers and controllers can be used in parallel to pushbutton panels or touch panels. The functionality (key layout) can be extended by additional functions of other KNX-devices, i.e. switching, jalousie controls, etc.

Standard design:

Housing black, front plate in natural aluminum, keys black.

Assigner	IBAS	80.14.550	142,-
Boom divider control (assigner)			

Room divider control (assigner).



Infrared-Receiver	IR-ES/R	50.13.143	50,-
Infrared-receiver with or without frame (no image).	IR-E/S	50.13.041	43,-
Radio-Receiver	FU-E/S	52.10.000	86,-



¥ 1.1 118929

Infrared- and Radio-Decoder	IBIR-P	80.14.402	229,-
Ear the expression of infrared, and radio	aignala from handh	old programmara	

For the conversion of infrared- and radio-signals from handheld-programmers and handheld-controllers onto the KNX-network.

Program



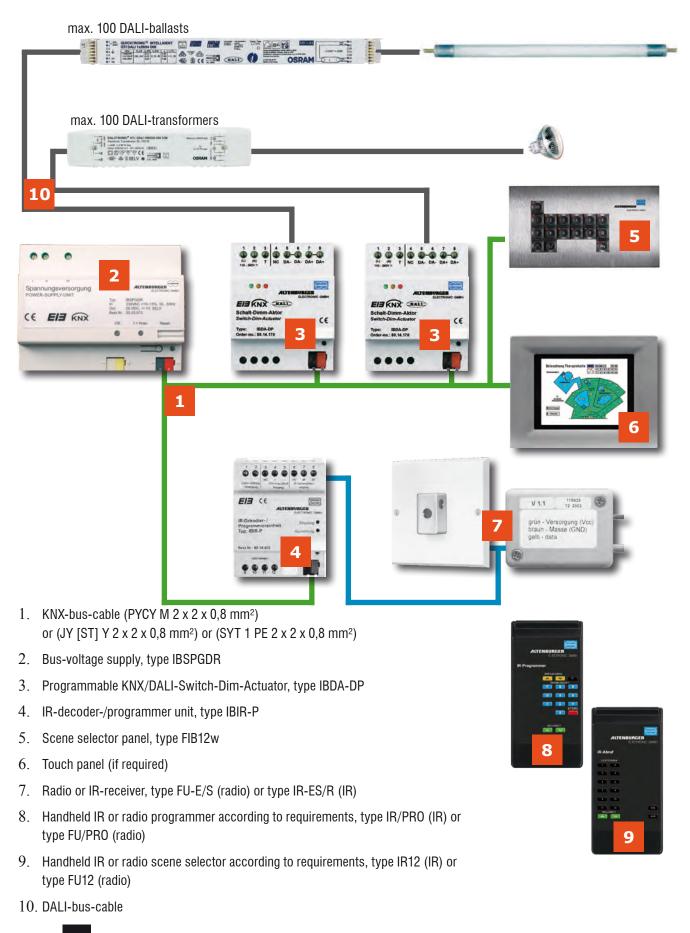
ELECTRONIC GMBH



DALI-Lighting-Control-Systems

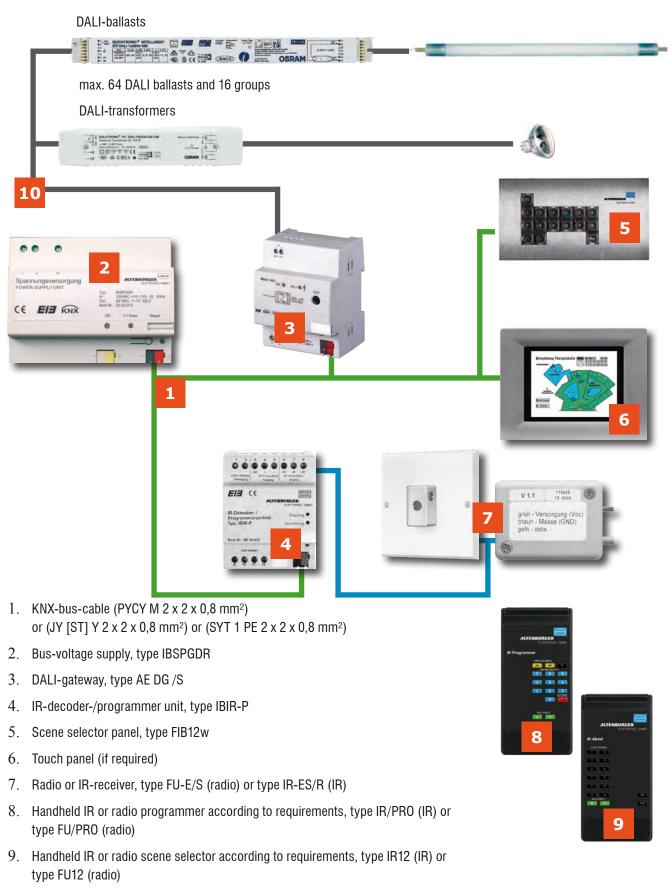


DALI The interaction of bus components in the broadcast process.



www.altenburger.de _

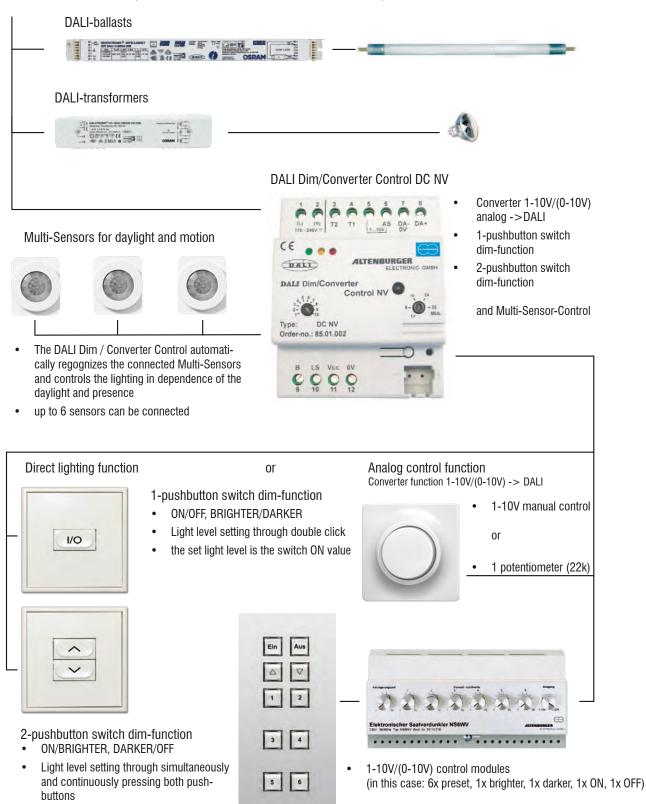
DALI The interaction of the bus components with individual addressing.



10. DALI-bus-cable

DALI System Survey for a DALI-Lighting Control with DALI-Dim-Converter-Control (DC NV)

up to 100 DALI ballasts (all ballasts are commonly and directly controlled)



the set light level is the switch ON value

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lustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	DALI Controller Basic NV	DCB NV	85.01.000	251,-
	 Control of up to 64 DALI-ballasts, DAI assignment of the DALI-devices to up dual addressing), programming and selection of up to 4 connection at 5-pushbutton panels for lighting scenes, constant light control (daylight dependence detection in combination with Multi-Scenes) 	I-transformer or D to 4 individual ligh lighting scenes, r programming and dent control) includ	ALI-converters, ting groups (indivi- selection of	,
	DALI-Converter (digital -> analogu	e) DK 1-10 V N	IV 85.01.001	78,-
ALL CARDENT AND	DALI-converter for DIN-rail mounting. Converts DALI-signals to 1-10V/0-10V-sigr	nals (analog).		
	DALI-Converter (digital -> analogu	e) KDK 1-10 V	85.02.000	75,-
	DALI-Converter in compact design for inst Converts DALI-signals to 1-10V/0-10V-sigr		·S.	
	DALI-Dim-Converter-Control DC NV	DCNV	85.01.002	188,-
1 → Jav = 1 1 → Jav	 Integrated power supply for the control transformers or DALI-converters in th constant light control (daylight dependence detection in connection with Multi-Serie integrated A/D-converter for the converbed DALI-signals, i.e. for the connection or devices, suitable for potentiometer controls, suitable for the connection of 1- or 2-page 	e broadcast mode, dent control) includ nsor-Dimmers, ersion of 1-10V/0-1 f 1-10V/0-10V cont	ing presence OV-signals to	
	DALI/KNX-Switch-Dim-Actuator	IBDA-DP	80.14.170	293,-
ATTENDED ATTEND	 Realization of convenience DALI-lightic combination with pushbutton panels, tableaus, etc. switching, dimming, cross-fading and times, integrated scene memory for up to 25 integrated scene sequence management 	ng controls with Kl touch panels, visua entering of light va scenes in the broa	NX-networks in Ilizations, layout- Ilues and fade dcast mode,	

suitable for infrared- and radio remote controls.

DALI **Lighting-Control-Systems**

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	1-Pushbutton-Panel	NT 1 SO	80.14.540	8,60
	1-Pushbutton-panel suitable in comb trol (DC NV). The NT1SO comprises			
	 on/off (through short push), brig brighter and darker alternates by light value (through double push 	/ each continuous push)		
	Cover for flush-mounted box, Ø55 n	nm.		
	2-Pushbutton-Panel	CTM2T	51.01.321	86,-
	2- Pushbutton-panel suitable for the Control (DC NV). The CTM2T compr			
	• on/brighter,			
0/1	 off/darker, setting of a light level to be store 	ed by through pushing bo	oth pushbuttons	

simultaneously.

Cover for flush-mounted box, Ø55 mm.

5-Pushbutton Panel	CTM5T	51.01.326	155,-
5-Pushbutton-panel for the connection for programming and selection of 4 lig nally setting of a constant daylight dep Cover for flush-mounted box, Ø55 mr	ht levels and with mast pendent light value in au	er on/off. Additio-	





(Ø55 mm) with cover (80 x 80 mm) and rotary knob.



Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	DALI Gateway	AE DG/S 1.16.1	80.14.180	512,-
66	The Gateway is suitable for the control of DAI converters via the KNX bus.	_l-ballasts, trans	formers and	
Restant on O on Of The	It controls a maximum of 64 DALI-bus units. addressable and can assigned to 16 groups.	The bus units ar	e individually	
4	The application program offers the following	functions:		
	• Switching, dimming and setting of brig	ntness levels		
	Status signals in case of lamp or ballas	t failures		
	Programming of individual maximum a	nd minimum dim	ming values	
	Setting of different dimming fade times	. Setting of dimn	ning values	
	Behaviour in case of DALI and KNX volt restoration	age failures and	voltage	
	 Programming of the light value after a v (Power-ON Level) 	oltage restoratio	n	

- KNX control of all connected DALI units without previous setting-up operation (DALI-group assignment)
- 14 independent lighting scenes to be selected or stored via 1-bit or 8-bit telegrams

DALI Lighting-Control-Systems

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)	
	Multi-Sensor	LS/d	51.21.032	55,-	
	Constant-light controller with present dete DALI-Controller-Basic (DCB NV) and DALI Ceiling surface mounting design.				
	Multi-Sensor	LS/d/R	51.21.032R	74,-	
	Described as before.				
	Ceiling recessed mounting design with re	ound cover, color w	vhite.		
	Extremely flat design, height max. 8 mm.				
	With mounting spring clamps.				
	Multi-Sensor	LS/d/Q	51.21.032Q	74,-	
	Described as before.				
	Ceiling recessed mounting design with s	quare cover, color	white.		
	Extremely flat design, height max. 8 mm.				
	With mounting spring clamps.				
	Multi-Sensor Multi-Sensor for daylight dependent consta	LBS/d	51.21.031	50,-	
	with DALI-Controller-Basic (DCB NV) and I	•			
	Ceiling surface mounting design.		, , , , , , , , , , , , , , , , , , ,		
	5 5 5				
	Multi-Sensor	LBS/d/R	51.21.031R	69,-	
	Described as before.			00,	
	Ceiling recessed mounting design with ro	ound cover, color w	vhite.		
	Extremely flat design, height max. 8 mm.				
	With mounting spring clamps.				
	Multi-Sensor	LBS/d/R	51.21.031Q	69, –	
	Described as before.				
	Ceiling recessed mounting design with square cover, color white.				
	Ceiling recessed mounting design with s	quare cover, color	white.		
	Ceiling recessed mounting design with s Extremely flat design, height max. 8 mm.	quare cover, color	white.		
		quare cover, color	white.		

n	Specification	Туре	Order-No.	Price/Piece (Euro)
	Multi-Sensor	LB/dk	51.21.039	55,-
	in downlight housing with swivel network and for the DALI-Dim-C	•		
	Ceiling recessed mounting desi	gn.		
9	Multi-Sensor	LBS/de	51 21 023	45.
	Multi-Sensor for in installation in lighting fixtur	LBS/de res in combination with the	51.21.033	45,-
	for in installation in lighting fixtur DALI-Controller Basic (DCB NV)	res in combination with the		45,-
	for in installation in lighting fixtu	res in combination with the		45,-

troller-Basic (DCB NV) or with the DALI-Dim-Converter-Control (DC).



Daylight-Sensor	LS/de	51.21.034	45,-
Daylight dependent working sensor (no m	otion detection) fo	or	
the installation in lighting fixtures in comb	ination with the D	ALI-	
Controller-Basic (DCB NV) or the DALI-Dir (DC NV).	m-Converter-Cont	trol	

DALI **Lighting-Control-Systems**

	Crosification	Tuno	Order Ne	Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)
	Infrared-Handheld-Programmer	IR/PRO	50.13.552	163,-
	Radio-Handheld-Programmer	FU/PRO	50.13.547	163,-
ALTENBURGEN Material (Mati IR.Programmer Material) Material Material Material	Infrared- and radio remote controls for pr scenes. The assignment of keys is similar button panels.			
	Infrared-Handheld-Controller	IR 12	50.13.548	229,-
	Infrared-Handheld-Controller	IR 6	50.13.549	185,-
	Infrared remote controller for the selection	of 12 (IR12) or 6 (I	R6) lighting scenes.	
The second	Radio-Handheld-Controller	FII 12	50 13 550	229 -

Radio-Handheld-Controller	FU 12	50.13.550	229,-
Radio-Handheld-Controller	FU 6	50.13.551	185,-

Radio remote controller for retrieval of 12 (IR12) or 6 (IR6) lighting scenes.

The handheld remote programmers and controllers can be used in parallel to pushbutton panels or touch panels. The functionality (key layout) can be extended by additional functions of other KNX-devices, i.e. switching, jalousie controls, etc.

Standard design:

Housing black, front plate in natural aluminum, keys black.

Assigner	IBAS	80.14.550	142,-
Room divider control (assigner)			

Room divider control (assigner).



Infrared-Receiver	IR-ES/R	50.13.143	50,-
Infrared-receiver with or without frame (no image).	IR-E/S	50.13.041	43,-
Radio-Receiver	FU-E/S	52.10.000	86,-



EI3 CE

IR-Dekor Program Typ: IBIF

...



and handheld-controllers onto the KNX-network.



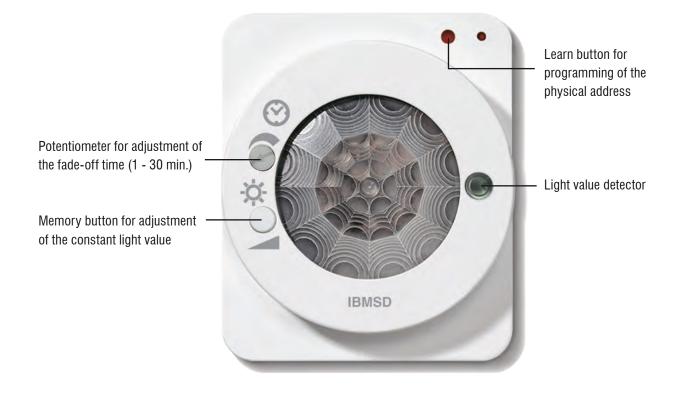
ALTENBURGER ELECTRONIC GMBH

MSD

Multi-Sensor-Dimmers and Switches

Daylight and motion dependent working presence detectors for the control of transformers, electronic ballasts with 1-10V interface, DALI and KNX systems.

Also suitable for LED-installations, incandescent lamps, high-voltage halogen-lamps, low-voltage halogen-lamps with electronic or wire-wound transformers, each in connection with ALTENBURGER Altoquick load dimmers (DIN-rail mounting design, for up to 2 kW) or TH dimmers (backplate mounting design, for up to 8 kW).



Lighting Automation with Multi-Sensor-Dimmers and Switches

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)		
	Multi-Sensor-Dimmer	MSD*	50.13.500	86,-		
	Constant light controller with presence detection the device or via an external pushbutton.	tion and set-poi	nt adjustment at			
	Ceiling surface mounting design.					
	Multi-Sensor-Dimmer	MSD/R	50.13.500R	105,-		
	Described as before.					
200	Ceiling recessed mounting design with round cover, color white.					
	Extremely flat design, height max. 8 mm.					
No as	With mounting spring clamps.					
	Multi-Sensor-Dimmer	MSD/Q	50.13.500Q	105,-		
	Described as before.					
	Ceiling recessed mounting design with squ	are cover, color	white.			
	Extremely flat design, height max. 8 mm.					
	With mounting spring clamps.					
	* Surcharge for all sensors with connected L	JV-resistant cab	le (1.5 m): 14,00 Euro)		

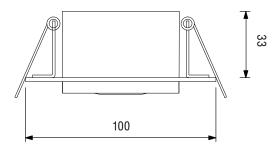


Illustration with tensed spring, diameter of drill holes, 90 mm.

Also the ceiling recessed sensors comprise a mounting plate and a functional part.

lustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Multi-Sensor-Dimmer	MSD-T	50.13.520	86,-
	with external set-point adjustment	and manual control vi	a pushbutton.	
	Constant light controller with prese button control.	nce detection and wit	h external push-	
	Ceiling surface mounting design.			
	Multi-Sensor-Dimmer	MSD-T/R	50.13.520R	105,-
	Described as before.			
-	Ceiling recessed mounting design wi	th round cover, color w	vhite.	
	Extremely flat design, height max. 8 m	ım.		
	With mounting spring clamps.			
	Multi-Sensor-Dimmer	MSD-T/Q	50.13.520Q	105,-
	Described as before.			
	Ceiling recessed mounting design wi	th square cover, color	white.	
	Extremely flat design, height max. 8 m	ım.		
	With mounting spring clamps.			
	Pushbutton	T1	55.70.035	14,20
\frown	Pushbutton for external set-point adjustions On/Off - Brighter/Darker.	stment and manual con	trol with the func-	

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Multi-Sensor-Switch, Multiswitch	MS	50.13.535	65,-
	Daylight- and presence dependent working s			,
e us	Ceiling surface mounting design.			
	Multi-Sensor-Switch, Multiswitch	MS/R	50.13.535R	84,-
	Described as before.			
10	Ceiling recessed mounting design with rou	nd cover, color	white.	
	Extremely flat design, height max. 8 mm.			
MS	With mounting spring clamps.			
	Multi-Sensor-Switch, Multiswitch	MS/Q	50.13.535Q	84,-
	Described as before.			,
60	Ceiling recessed mounting design with squ	are cover, color	white.	
	Extremely flat design, height max. 8 mm.			
MS	With mounting spring clamps.			
	Multi-Sensor-Dimmer	MSL	50.13.510	86,-
	with preselectable minimum/maximum limit	ation of the light	level and with 6	,
	addition dim and switch functions.			
	Ceiling surface mounting design.			
	Multi-Sensor-Dimmer	MSL/R	50.13.510R	105,-
	Described as before.			
-	Ceiling recessed mounting design with rou	nd cover, color	white.	
	Extremely flat design, height max. 8 mm.			
- m	With mounting spring clamps.			
	Multi-Sensor-Dimmer	MSL/Q	50.13.510Q	105,-
	Described as before.			
-	Ceiling recessed mounting design with squ	are cover, color	white.	
- ((CT) -	Extremely flat design beight may 9 mm			
i kana k	Extremely flat design, height max. 8 mm.			

tion	Specification	Туре	Order-No.	Price/Piece (Euro)
	Multi-Sensor- Light-Value-Control-Switch	MS-LRS	50.13.530	86,-
	for daylight- and presence depending switch	ing.		
	Ceiling surface mounting design.			
	Multi-Sensor- Light-Value-Control-Switch	MS-LRS/R	50.13.530R	105,-
	Described as before.			
	Ceiling recessed mounting design with rou	nd cover, color wh	ite.	
	Extremely flat design, height max. 8 mm.			
	With mounting spring clamps.			
/				
	Multi-Sensor- Light-Value-Control-Switch	MS-LRS/Q	50.13.530Q	105,-
	Multi-Sensor- Light-Value-Control-Switch Described as before.	MS-LRS/Q	50.13.530Q	105,-
	Light-Value-Control-Switch			105,-
	Light-Value-Control-Switch Described as before.			105,-
•	Light-Value-Control-Switch Described as before. Ceiling recessed mounting design with squa			105,-



Lighting Automation with Multi-Sensor-Dimmers and Switches

n	Specification	Туре	Order-No.	Price/Piece (Euro)
	Infrared-Multi-Sensor-Dimmer	IR-MSD	50.13.540	130,-
	in ceiling surface mounting design and for the of constant light values, lighting scenes and a handheld remote control.			· · · · ·
	Ceiling surface mounting design.			
	Infrared-Multi-Sensor-Dimmer	IR-MSD/R	50.13.540R	148,-
	Described as before.			
	Ceiling recessed mounting design with roo	und cover, color wi	hite.	
	Extremely flat design, height max. 8 mm.			
	With mounting spring clamps.			
	Infrared-Multi-Sensor-Dimmer	IR-MSD/Q	50.13.540Q	148,-
	Described as before.			
	Ceiling recessed mounting design with sq	uare cover, color v	vhite.	
	Extremely flat design, height max. 8 mm.			
	With mounting spring clamps.			
			50.13.544	166
	Infrared-Handheld Remote Control	IR-TM		155,–
E and	Infrared-Handheld Remote Control for the selection of constant light values, fo the manual control via infrared-control.			100,-
	for the selection of constant light values, fo	r the programming		199,-

nual control of up to 3 lighting circuits (3x IR-MSD).

Lighting Automation with Multi-Sensor-Dimmers and Switches

stration	Specification	Туре	Order-No.	Price/Piece (Euro)
	KNX-Multi-Sensor-Dimmer	IBMSD	80.14.800	190,-
	Daylight- and presence depended workin nation with KNX-switch actuator also h sence dependently be switched. Via th transformers (with 1-10V interface) can is suitable for the control of load dimme out directly at the IB-MSD or via the ETS The constant light value can be furtherm which is also suitable for manual dimm Darker.	eating, air-conditioner e 1-10V interface elec be controlled. The acti rs. Set-point adjustme software as saved val tore programmed via a	s or fans can pre- ctronic ballasts or ive 0-10V interface ents can be carried ues of the objects. a pushbutton panel	
	Ceiling surface mounting design.			
	KNX-Multi-Sensor-Dimmer	IBMSD/R	80.14.800R	209,-
	Described as before.			
	Ceiling recessed mounting design with	round cover, color w	hite.	
	Extremely flat design, height max. 8 mm	۱.		
NSO	With mounting spring clamps.			
	KNX-Multi-Sensor-Dimmer	IBMSD/Q	80.14.80 0 Q	209,-
	Described as before.			
-	Ceiling recessed mounting design with	square cover, color	white.	
•	Extremely flat design, height max. 8 mm	۱.		
hes	With mounting spring clamps.			

	STOR	
	() (AUT	

4-Pushbutton-Panel for Programming NT 4L SO 80.14.545 253,–

for the programming of the constant light values and for manual control with the functions Brighter/Darker.

With LED for indication of the programming mode (automatic mode).

stration	Specification	Туре	Order-No.	Price/Piece (Euro)
	KNX-Multi-Sensor-Controller	IBMSC-NV	80.14.810	222,-
1 2 3 4 5 7 9 1 2 3 4 5 7 9 1 2 3 4 5 7 9 1 2 3 4 5 7 9 1 2 3 4 5 7 9 1 3 1 1 1 1 1 3 1 1 1 1	EIB/KNX Multi-Sensor-Controller, The co functions as the Multi-Sensor IBMSD, it o connected with 6 IBMSD sensors for the of motion detection. The sensors are not control electronic. This is included in the Its switch capacity is 16A.	ntroller has the same can however be extension of the range including the IBMSD		,
	If one sensor recognizes a presence light detection of all connected sensors is swi sensor identifies ,his' light level, and all c computing a mixed light level which is th constant.	tching ON. Each connected sensors are		
	Optional the functions ,presence detection dent constant light control' can be elimin software so that just one function is activ	ated through the ETS		
	The sensors are wired in a conventional range of detection also can be extended of up to 64 IBMSD Multi-Sensor-Controls	with the combination		
	Multi-Sensor	LBS/d	51.21.031	50,-
	Ceiling surface mounting design. The sensors are not including the IBMSD This is included in the controller IBMSC-I			
	Multi-Sensor	LBS/d/R	51.21.031R	69,-
	Described as before.			
	Ceiling recessed mounting design with white.	round cover, color		
	Extremely flat design, height max. 8 mm			
	With mounting spring clamps.			
	Multi-Sensor	LBS/d/Q	51.21.031Q	69,-
	Described as before.			
	Ceiling recessed mounting design with	square cover, color		
	white.			
	white.			

				Price/Piece		
Illustration	Specification	Туре	Order-No.	(Euro)		
				407		
	Multi-Sensor-DIN rail Controller	AQ-MSS	50.14.140	167,-		
	For the connection of up to 6 Multi-Sensors. With selector switch for 6 func-					
· · · ·	tions and manual control with the functions BRIGHTER-DARKER-ON/OFF.					
Multi-Senser Steuergeink Na Anna San An Ka Hall Str Stem of the Annaparate Laboratoria (Laboratoria (Labor						
	The distance between the controller and the sensors can be up to 100 m.					
	Multi-Sensor for the AQ-MSS	LB/k	51.21.037	82,-		
	Multi-Sensor, accommodated in a downlight			,		
		-	.			
0						
	Multi Concer for the AO MOO//MOO	LD/h	F1 01 00C			
	Multi-Sensor for the AQ-MSS/KMSS	LB/b	51.21.036	55,-		
	Multi-Sensor without housing, fitting into ligh	IL IIXIUIES				
	Multi-Sensor for the KMSS/AQ-MSS	LBS/e	51.21.030	45,-		
/	Multi-sensor-dimmers preferably to be fitted to floorstanding lamps.					
OY.						
-						
1						
	*****			07.00		
	KMSS	KMSS	50.13.320	65,80		
2:22	Multi-Sensor-Control KMSS for an insertion into light fittings.					
and a second second						
ALC: NO						

Lighting Automation with Multi-Sensor-Dimmers and Switches

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)	
	Signal converter	KSU-S	50.13.301	92,-	
	(phase-control mode > 1-10V)				
	The signal converter changes the phase-controlled AC voltage of a dimmer into an 1-10V DC signal for a maximum of 20 electronic ballasts or transformers with 1 – 10V interface.				
	Switch dim-module	KSDM-S	50.13.302	142,-	
1 and the second second	For the functions (Brighter-Darker-ON/OFF, fitting to light fixtures)				
	With the switch dim-module a lighting system with ballasts with 1-10V inter- face can be controlled with pushbuttons (Brighter-Darker-On/Off) from several places.				
and the second sec	Constant light control KAD-S	KAD-S	50.13.310	153,-	
	The KAD-S to be fitted to light fixtures has to be combined with:				
	1 external set value device or pushbutton				
	1 x light sensor				
	And as option:				
	1 or more signal amplifiers				
	1 or more motion detectors				
	Supplementary motion control KBM	KBM	50.13.330	58,50	
an:	The KBM switches with its voltage free contact motion dependent any load.				
S - MIL - MIL	It is the supplement module for the multi-sensor-type MSD or MSD-T and the minimum/maximum light level control type MSL or the light value control switch MS-LRS.				
	Current sink	Current sink	51.22.001	59,60	

Conversion from 0-10V > 1-10V for approx. 80 electronic ballasts





ALTENBURGER ELECTRONIC GMBH

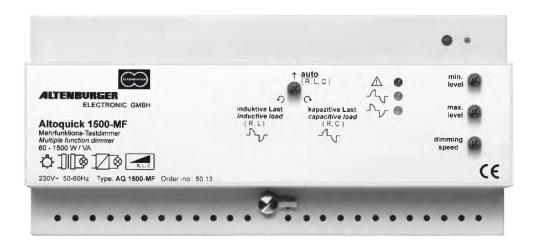
ALTOQUICK (AQ)

Dimmers and control modules

for DIN rail systems

Suitable for:

- The manual dimming with potentiometers
- Pushbutton-, IR- and radio control in connection with AQ-controls
- KNX (programmable) dimming controls
- Controls in combination with daylight and motion dependent multi-sensor dimmers
- Building management systems



ALTOQUICK (AQ) Load dimmers and controls

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)		
	AQ-Load dimmer 6A (max. 1300W/VA)	AQ 1,3 KW	50.13.010	163,-		
Max Man Matanana Matanana Matanananananananananananananananananana	Phase-controlled (leading-edge) dimmer for the control of incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound trans- formers, neon lamps (remote potentiometers: see page 40)					
	AQ-Load dimmer 10A (max. 2KW/KVA)	AQ 2 KW	50.13.210	264,-		
	Phase-controlled (leading-edge) dimmer for the control of incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound trans- formers, power LEDs (230V), neon lamps (remote potentiometers: see page 40)					
	AQ-0 Load dimmer (max. 0,7kW/KVA)	AQ-0 0,7 KW	50.13.110	190,-		
Phase-interval (lagging edge) controlled dimmer for the control of electronic transformers for low-voltage halogen lamps, incandescent lamps and high-voltage halogen lamps (remote potentiometers: see page 40)						
	AQ-O Load dimmer (max. 1,4kW/KVA)	AQ-0 1,4 KW	50.13.111	264,-		
	Phase-interval (lagging edge) controlled dimmer for the control of electronic transformers for low-voltage halogen lamps, incandescent lamps, high-voltage halogen lamps and power LEDs (230V) (remote potentiometers: see page 40)					
	AQ-0 Universal dimmer (max. 1,5kW/KVA)	AQ 1500-MFU	50.13.000	311,-		
	Phase-controlled and phase-interval controlled dimmer with integrated control functions:					
	Examples for applicable control panels type CTM 2T (see page 39)	S:				
	AQ-master control	AQS	50.13.012	153,-		
Altoquick Add Burgenergenerge Storwer Bin Add Benergenerge Bin Add Benergenerge	Operating in connection with AQ load di maximum of 40 AQ dimmers (remote p					

ALTOQUICK (AQ) Load dimmers and controls

lustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	1-pushbutton auditorium control	NS1	50.13.015	179,-
	The NS1 is suitable for up to 40 AQ-load dir BRIGHTER-DARKER-ON/OFF	nmers with the f	unctions	
Elektronischer Sasherdunkler NS1 2017Ster Tyr Kil Bes de Statos	Applicable control panel, Type NT 1 SO see	page 39		
	3-pushbutton auditorium control	NS2-X	50.13.030	349,-
Elektronischer Saatverdunkler KS 2-X Werder werden KN 2-X Werder KN 2-X Werder KN 2-X Marken KN 2-X	with the following functions: 1 x BRIGHTER (Lighting goes into its maxin 1 x DARKER (lighting goes to 0) 1 x ON/OFF Applicable control panel, Type CTM 3T, see			
	Auditorium dimming control	NS4	50.13.013	320,-
Instrumischer andvardnicher NS 4 Deutster Terror 1994 Bereinen (1994)	The NS4 type is suitable for the common co The connected load can be controlled with functions: Pushbutton 1: Lighting goes into its brightes Pushbutton 2: Lighting goes into the dark po Pushbutton 3: Lighting stops during the tran Pushbutton 4: Lighting goes into a level to b control. Applicable control panel, Type CTM 5T, see	4 pushbuttons v st level osition nsfer into brighte be set with a pote	vith the following er or darker	
	Auditorium dimming control with 4 scene selections	NS4 WV	50.13.016	320,-

The NS4WV is suitable for the setting of 4 different light levels plus ON/OFF. Applicable control panel, Type CTM 5T, see page 39



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Auditorium dimming control with 6 scene selections	NS6 WV	50.13.218	425,-
The NS6WV is suitable for the control of a with the following functions:	maximum of 20 A0	Q load dimmers	
 6xScene selection, 1xBrighter, 1xDarker, 1x	(ON, 1xOFF with th	e changeover	

interfaces of 0-10V (control of load dimmers) and 1-10V (control of electronic ballasts and transformers with 1-10V interface).

Applicable control panel, Type F10sES/UP, see page 39

ALTOQUICK (AQ)

Load dimmers and controls

Special devices

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)		
		- , , , ,		()		
	AQ-control module	AQNP	50.14.030	320,-		
	Lighting control operating in the reverse proportional control mode to the daylight					
	In combination with:					
201.00m 1gr A010 Ber A IN 14000 ALTONOMOUNT	1 x load dimmer (see page 36) 1 x daylight dependent sensor, type	e LF/w				

	AQ-control module	AQP	50.14.031	320,-
	Lighting control operating in the pro	portional control mode	to the daylight	
	In combination with:			
Nov Novo	1 x load dimmer (see page 36)			
	1 x daylight dependent sensor, type	e LF/w		



ALTOQUICK (AQ) Load dimmers and controls

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	1-Pushbutton panel	NT 1 SO	80.14.540	8,60
	1-Pushbutton function, suitable for universal auditorium dimming cont	rol type AQ-1500-MFU	NS1-S and	
	Coverplate for wall-recessed hous	sings 55 mm		
	CTM2T	CTM2T	51.01.321	86,-
	For 2-Pushbutton functions, suitab AQ1500-MFU with the functions 'O Coverplate for wall-recessed hou s	N/BRIGHTER' and DARKER,		
	CTM3T	CTM3T	51.01.322	126,-
10	For 3-Pushbutton functions, suitab with the functions 'BRIGHTER-DAF		-X and NS2-SX	
	Coverplate for wall-recessed hous	sings 55 mm		
	CTM5T	CTM5T	51.01.326	155,-
	With 5-Pushbutton functions, suita	ble for the controls type NS	4, and NS4-S	
A 500	with external ON/OFF switch			
	Coverplate for wall-recessed hous	sings 55 mm		
	CTM5T WV	CTM5T WV	51.01.325	155,-
00	With 5-Pushbutton functions, suite external ON/OFF switch	able for the controls type NS	34WV-S with	
3 4	Coverplate for wall-recessed hour	sings 55 mm		
	F10sES/UP	F10sES/UP	51.01.170	272,-
	Suitable for the control type NS6W	V (see page 37)		

ALTOQUICK (AQ) Load dimmers and controls

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Rotary potentiometer	DPU	51.01.021	26,-
	Rotary potentiometer for wall-recessed hou switch with coverplate (80x80mm) and know	- ()) with rotary ON/OFF	
	Rotary potentiometer	DPUT	51.01.022	24,-
	Similar to the DPU (see above) however wit			,
	Rotary potentiometer with scale	DPO	51.01.019	25,-
S 0 0	With rotary ON/OFF switch, knob and scale			
	Rotary potentiometer with scale and pushbutton	DPOT	51.01.020	25,-
	As above, however with pushbutton ON/OF	F instead of swite	ch	
	Rotary potentiometer without cover	DPUO	51.02.021	25,-
	Rotary potentiometer for wall-recessed hou switch without coverplate and knob, shaft =	- ()) with rotary ON/OFF	
	Rotary potentiometer with pushbutton	DPUTO	51.02.022	25,-
	Rotary potentiometer as above, however Shaft = 4 mm-Ø	with pushbuttor	n instead of switch.	
	Slider	SP	51.01.027	24,-
	Sliding potentiometer with scale and knob.			

ALTOQUICK (AQ)

With IR and radio controls and accessories

stration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Combined IR- and radio control module	IRNV-3S	50.13.145	533,-
Mana a si a	For the control of a maximum of 3 light transformers with 1-10V interface or up 0-10V interface respectively with the fu operated with pushbutton panels or / a below).	o to 3 ALTENBURGER I Inction ON/OFF, Bright	oad dimmers with er-Darker. To be	
	IR control for 5-functions	IR-ST/S	50.13.142	235,-
AITENSUNCIA	In connection with the control modules with controls with 1-10V interface as w with an extension range up to 35 chann	vell as for sun protectio	,	
	IR sensor	IR-ES/R	50.13.143	50,-
•				
	Radio receiver	FU-E/S	52.10.000	86,-
- Versorgung (Vcc) - Masse (GND) - data				
	Handheld IR-transmitter	IR-S/S	50.13.060	74,-
		the of here an ending	to the energification	
J	With up to 35 channels. A smaller quar	nny of keys according		
	With up to 35 channels. A smaller quar	itity of keys according	io ine sheen	fication

ALTOQUICK (AQ) Dimmers with 1-10V interface

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)		
	Potentiometer control module	AQS-S	50.13.112	153,-		
Atoquick Ass.s Provide Instances To office Instances To office Instances	Dimmer for the control of max. 200 elect 1-10V interface to be operated with rotary In order to provide for a versatile operation DC 0-20 (0-10)V or with an internal rotary ON/OFF-switch.	y or sliding potentiom on the external contro	eters. I is made via			
	AQS-Control	NS1-S	50.13.115	179,-		
Elektronischer Saalverdenker NS1-5 DIV- före for 101 den 19 00 101 DIV- före for 100 den 19 00 100 DIV- före for 100 den 19 00 100 DIV- före for 100 den 19 00 000 DIV- före for 100 den 19 000 DIV- före före före före före före före före	AQ-auditorium dimming control module v NS1-S dimmable electronic ballasts and voltage interface of 1-10V are controlled. between 0100% continuously only with (1-pushbutton function).	electronic transforme The NS1-S controls t	ers with low- he brightness			
	Remote control panel, type NT1SO see page 39					
Elsktonischer Basiverdunkter HS 2-52	AQS-Control AQ-auditorium dimming control module w NS2-SX is suitable for the common contr or transformers with 1-10V interface with 1xBRIGHTER, 1xDARKER 1xON/OFF Remote control panel, type CTM 3T see p	ol of up to 200 electrithe following function	onic ballasts	349,-		
	AQS-Control	NS4-S	50.13.113	320,-		
Elistronischer Salverer Uniter SS-5. Zur weit der Konsteller	AQ-auditorium dimming control module with 4-pushbutton function. With the NS4-S dimmable electronic ballasts and electronic transformers with low-voltage interface of 1-10V are controlled. With the NS4-S the brightness between 0100% continuously can be controlled with 4 pushbuttons (4-push- button function).					
	Remote control panel, type CTM 5T see p	bage 39				
	AQS-Control	NS4 WV-S	50.13.116	320,-		
	AQ-auditorium dimming control module v With the NS4 WV-S up to 200 dimmable					



222222

AQS-Control NS4 WV-S 50.13.116	
AQ-auditorium dimming control module with 4-pushbutton-selection function	
With the NS4 WV-S up to 200 dimmable electronic ballasts and electronic	
transformers with low-voltage interface of 1-10V are controlled. With the NS4	
WV-S up to 4 different light values can be selected via external buttons.	

Remote control panel, type CTM 5T WV see page 39

	AQS-Control	NS6 WV	50.13.218	425,-
	AQ-auditorium dimming control module with 6	S-pushbutton-s	election function,	
-	6xPreselection , 1xBrighter, 1xDarker, 1xON, 1	xOFF with swite	chable interface	
	0-10V (control of load dimmers) and 1-10V (di	rect control of (electronic ballasts	
	and tranformers).			

Remote control panel, type F10s/ES/UP see page 39

ALTOQUICK (AQ)

Constant light controls, light-value control switches and electronic lux instrument transformers

			Price/Piece
Specification	Туре	Order-No.	(Euro)
Constant light control AQAD-S	AQAD-S	50.14.116	320,-
For electronic ballasts and transformers of 3 load dimmers with 0-10V interface f to the daylight with ON/OFF switch with the light level to be kept constant with th	with 1-10V interface for a smooth adjustm the possibility of an	e or for a maximum ent of artificial light external setting of	020,-
Photosensor	LF/w/D	51.21.010	39,30
For the constant light control type AQAD below) Wall-mounted, swivelling, water protecti		ntrol switches (see	
Basket protection for the photose	nsor SK	51.21.090	47,-
Light value control switches for a	ll types of lamps		
Light value control switch for 1-circuit illumination	LWS1	50.14.011	257,-
with switch state display.			
Light value control switch for 3-circuit illumination	LWS3	50.14.016	352,-
with light-value setting of 10-1000 lux ar per light circuit with switch state display			
Photosensor	LF/w/D	51.21.010	39,30
For the light value control switches see a	above		
Electronic lux instrument transfor for building management systems		50.14.102	882,-
The lux-instrument transformer acquires per circuit and transforms it into a linear Systems with photosensor-dependent co sensors type LF/w/D (see above) for 3 c	DC proportional to the conne	ne brightness.	

 www.altenburger.de

ALTOQUICK (AQ) Dimmers with 1-10V interface

llustration	Specification	Туре	Order-No.	Price/Piece (Euro)
		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Wall-recessed dimmer with rotary ON/OFF switch	DPUX-S	50.50.010	28,80
\bigcirc	Dimmer for electronic ballasts and trans interface with AX-coverplate and knob	formers with 1-10V		
	Wall-recessed dimmer with push-changeover switch	DPUWX-S	50.50.011	28,80
0	Dimmer for electronic ballasts and trans interface with AX-coverplate and knob	formers with 1-10V		
	Wall-recessed dimmer with pushbutton	DPUTX-S	50.50.012	28,80
0	Dimmer for electronic ballasts and trans interface with AX-coverplate and knob	formers with 1-10V		
	Wall-recessed dimmer with rotary ON/OFF switch	DPUO-S	50.50.020	28,80
	Dimmer for electronic ballasts and trans interface with 4mm shaft, without cover			
	Wall-recessed dimmer with push-changeover switch	DPUWO-S	50.50.021	28,80
	Dimmer for electronic ballasts and trans interface with 4mm shaft, without cover			
	Wall-recessed dimmer with pushbutton	DPUTO-S	50.50.022	28,80
	Dimmer for electronic ballasts and trans interface with 4mm shaft, without cover			

ALTOQUICK (AQ) Dimmers with 1-10V interface

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Wall-recessed dimmer with rotary ON/OFF switch	DPN-S	50.50.030	35,10
\bigcirc	Dimmer for electronic ballasts and trans interface for DIN rail systems	formers with 1-10V		
	Wall-recessed dimmer with push-changeover switch	DPNW-S	50.50.031	35,10
\bigcirc	Dimmer for electronic ballasts and trans interface for DIN rail systems	formers with 1-10V		
	Wall-recessed dimmer with pushbutton	DPNT-S	50.50.032	35,10
\bigcirc	Dimmer for electronic ballasts and trans interface for DIN rail systems	formers with 1-10V		

Wall-mounted dimmer with rotary ON/OFF switch	DPA-S	50.50.040	35,60
Dimmer for electronic ballasts and trans interface	formers with 1-10V		
Wall-mounted dimmer with push-changeover switch	DPAW-S	50.50.041	35,60



Wall-mounted dimmer with pushbutton	DPAT-S	50.50.042	35,60
Dimmer for electronic ballasts and transf interface	ormers with 1-10V		

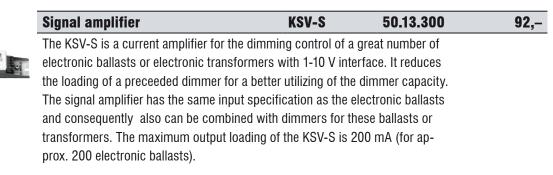


ALTOQUICK (AQ) Special modules with 1-10 V interface

lustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	1-10V control	AQNP-S	50.14.130	320,-
	Dimming control operating reverse pro	oportional to the daylig	ht	
22252	Accessory:			
Gegenläufige Tageslichtsteuerung Aufender im Activit and Schultz	1 daylight sensor, type LF/w			
	1-10V control	AQP-S	50.14.131	320,-
	Dimming control operating proportion	al to the daylight.		
	T .			
Tageslicht-	Accessory:			
Proportionalsteerung mit-erre 18 425 bes keit keiter	1 daylight sensor, type LF/w			
	Double wave motion lighting co	ntrol AQE2-S	50.13.121	320,-
_	This control operates two lighting grou	ups individually up and	down between	
-	100 % and 0: While group 1 is in its br	• • • •	2 arrives at 0	
****	(and vice versa). The fade time can be For each group between 3 and 60 sec		at the device	
Wechsellicht- Stouergerät 2017-750 Hz Typ AQ EX-5 Desc Ak 50 13 121 120	The module is suitable for the control	•		
	formers with 1-10V interface or 40 AQ	•		
	Over and under voltage relay	SW	50.14.010	129,-
	The over and under voltage relay is a c circuits ON or OFF in dependence of d		cally switches light	
		meren vonago inputo.		
Spannungs- wächter	It has two control inputs which can be	e used alternatively:		

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.



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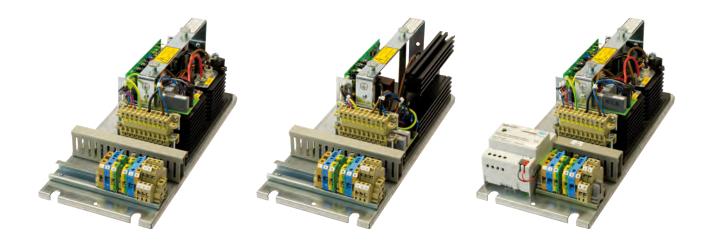
Thyristor-controlled

high power load dimmers

Conventional and programmable KNX load dimmers up to a load capacity of 8 kW

Suitable for:

- Manual dimming control with potentiometers (see page 40)
- Pushbutton, IR-and radio controlled in connection with AQ control gear
- Control of power LEDs (230V)
- Programmable KNX load dimmers with integrated memory for up to 25 lighting scenes
- Load dimmers in connection with daylight and motion dependent multi-sensor-dimmers
- Power modules in building management systems



TH & TH-0

Thyristor controlled dimmers

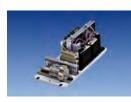
Operating in the phase-controlled and phase-interval controlled mode

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

TH load dimmers operating in the phase-controlled (leading edge) mode

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.

Mounting plate with terminal blocks and plug-on load and control module. Manually controlled with attached rotary potentiometer with ON/OFF switch.



1-phase TH-plug in module: 230 V/AC, 50 Hz, phase-controlled mode

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,-

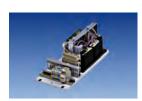
3-phase TH-plug in module: 3x 230/400 V, 50 Hz, phase-controlled mode

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-0 load module, operating in the phase-interval controlled (trailing edge) mode.

Backplate mounted for cabinets suitable for incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps or suitable power LEDs.

Mounting plate with terminal blocks and plug-on load and control module. Manually controlled with attached rotary potentiometer with ON/OFF switch.



1-phase TH-O plug in module: 230 V/AC, 50 Hz, phase-interval (trailing edge) controlled mode

up to 2 kW/kVA	TH 2 kW-0	51.02.100	396,-
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3-phase TH-O plug in module: 3x 230/400 V, 50Hz, phase-interval (trailing edge) controlled mode

up to 3x 2 kW/kVA	TH 3x2 kW-0	51.11.100	1.288,-
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THG & THG-0

Thyristor controlled dimmers

Operating in the phase-controlled and phase-interval controlled mode

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

THG load dimmers, operating in the phase-controlled (leading edge) mode

With wall-mounted or wall-recessed housing, suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and suitable power LEDs.

Dimming controls in wall-mounted or wall-recessed design (kindly add the respective designation for the type which is required) with integrated MCBs and rotary potentiometers with ON/OFF switch and scale.

	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,-
	AP: wall-mounted, UP: wall-recessed			
	3-phase THG AP/UP modules: 3x 230	/400 V, 50 Hz, phase-o	controlled (leading	g edge) mode
	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,-

1-phase THG-AP/UP modules: 230 V/AC, 50 Hz, phase-controlled (leading edge) mode

THG 3x8 kW

51.11.008

AP: wall-mounted, UP: wall-recessed

... up to 3x 8 kW/kVA

THG-0 load dimmers, operating in the phase-interval controlled (trailing edge) mode

With wall-mounted or wall-recessed housing, suitable for incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps and suitable power LEDs.

Dimming controls in wall-mounted or wall-recessed design (kindly add the respective designation for the type which is required) with integrated MCBs and rotary potentiometers with ON/OFF switch and scale.

1-phase THG-0 wall-mounted/wall-recessed modules with housing:
230 V/AC, 50 Hz, phase-interval controlled (trailing edge) mode

up to 2 kW/kVA	THG 2 kW-0	51.02.105	481,-
AP: wall-mounted LIP: wall-recessed			

AP: wall-mounted, UP: wall-recessed



up to 3x 2 kW/kVA	THG 3x2 kW-0 51.11.105	1.465,-

AP: wall-mounted. UP: wall-recessed



1.899,-

THD & THD-0

Thyristor controlled dimmers

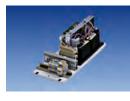
Operating in the phase-controlled and phase-interval controlled mode

			Pric	e/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

THD load dimmers operating in the phase-controlled (leading edge) mode with direct switching ON/OFF

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.

Mounting plate with terminal blocks and plug-on load and control module. Manually controlled lighting control with direct ON/OFF switching with attached rotary potentiometer with pushbutton and scale.





1-phase THD-plug in module: 230 V/AC, 50 Hz, phase-controlled mode

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,-

3-phase THD-plug in module: 3x 230/400 V, 50 Hz, phase-controlled mode

up to 3x 2 kW/kVA	THD 3x2 kW	51.30.005	1.088,-
up to 3x 3 kW/kVA	THD 3x3 kW	51.30.006	1.299,-
up to 3x 5 kW/kVA	THD 3x5 kW	51.30.007	1.391,-
up to 3x 8 kW/kVA	THD 3x8 kW	51.30.008	1.788,-

THD-0 load module, operating in the phase-interval controlled (trailing edge) mode with direct switching ON/OFF

Backplate mounted for cabinets suitable for incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps or suitable power LEDs.

Mounting plate with terminal blocks and plug-on load and control module. Manually controlled lighting control with direct ON/ OFF switching with attached rotary potentiometer with pushbutton and scale.

1-phase THD-0 plug in module: 230V/AC, 50 Hz, phase-interval (trailing edge) controlled mode

|--|



3-phase THD-0 plug in module: 3x 230/400 V, 50 Hz, phase-interval (trailing edge) controlled mode ... up to 3x 2 kW/kVA THD 3x2 kW-0 51.30.105 1.398,–



THDG & THDG-0

Thyristor controlled dimmers

Operating in the phase-controlled and phase-interval controlled mode

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

THDG load dimmers, operating in the phase-controlled (leading edge) mode with direct ON/OFF switching

With wall-mounted or wall-recessed housing, suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and suitable power LEDs.

Dimming controls in wall-mounted or wall-recessed design (please add the respective designation for the type) with integrated MCBs and rotary potentiometers with ON/OFF switch and scale.



1-phase THDG-AP/UP modules: 230 V/AC, 50 Hz, phase-controlled (leading edge) mode

up to 2 kW/kVA	THDG 2 kW	51.31.000	452,-
up to 3 kW/kVA	THDG 3 kW	51.31.001	514,-
up to 5 kW/kVA	THDG 5 kW	51.31.002	659,-
up to 8 kW/kVA	THDG 8 kW	51.31.003	797,

AP: wall-mounted, UP: wall-recessed

3-phase THDG AP/UP modules:

3x 230/400 V, 50 Hz, phase-controlled (leading edge) mode

	,		
up to 3x 2 kW/kVA	THDG 3x2 kW	51.31.005	1.291,-
up to 3x 3 kW/kVA	THDG 3x3 kW	51.31.006	1.503,-
up to 3x 5 kW/kVA	THDG 3x5 kW	51.31.007	1.642,-
up to 3x 8 kW/kVA	THDG 3x8 kW	51.31.008	2.034,-
up to 3x 5 kW/kVA	THDG 3x5 kW	51.31.007	1.642

AP: wall-mounted, UP: wall-recessed

THDG-0 load dimmers, operating in the phase-interval controlled (trailing edge) mode with direct ON/OFF switching

With wall-mounted or wall-recessed housing, suitable for incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps and suitable power LEDs.

Dimming controls in wall-mounted or wall-recessed design (please add the respective designation for the type) with integrated MCBs and rotary potentiometers with ON/OFF switch and scale.

> 1-phase THDG-0 AP/UP modules with housing: 230 V/AC, 50 Hz, phase-interval controlled (trailing edge) mode

up to 2 kW/kVA	THDG 2 kW-0	51.31.100	556,-
AP: wall-mounted, UP: wall-recessed			
3-phase THDG-0 AP/UP modules 3x 230/400 V, 50 Hz, phase-inter	•	lge) mode	
up to 3x 2 kW/kVA	THDG 3x2 kW-0	51.31.105	1.601,-

AP: wall-mounted, UP: wall-recessed

.001,

TS & TS-0

Thyristor controlled dimmers

Operating in the phase-controlled and phase-interval controlled mode

			Priq	ce/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

TS auditorium dimmers operating in the phase-controlled (leading edge) mode

Backplate-mounted in cabinets (optional wall-mounted or wall-recessed housing) for the control of incandescent lamps, highvoltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and dimmable power LEDs.

Pushbutton controlled dimmer backplate mounted in cabinets, consisting of mounting plate with terminal blocks and plug-on load and control module. To be controlled with pushbutton panels. Pushbutton functions: bright, dark, stop, light value setting (preselection).





1-phase TS-plug in module backplate mounted: 230 V/AC. 50 Hz. phase-controlled mode

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 TS-plug in module backplate mounted:

3x 230/400 V, 50 Hz, phase-controlled mode

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 load module, operating in the phase-interval controlled (trailing edge) mode

Transistor/Mosfet controlled auditorium dimmer for incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps and dimmable power LEDs.

Backplate mounted in cabinets, consisting of mounting plate with terminal blocks and plug-on load and control module. To be controlled with pushbutton panels. Pushbutton functions: bright, dark, stop, light value setting (preselection).

1-phase TS-0 plug in module backplate mounted: 230 V/AC, 50 Hz, phase-interval controlled mode



up to 2 kW/kVA	TS 2 kW-0	51.04.100	878,-

3-phase TS-0 plug in module backplate mounted: 3x 230/400 V, 50 Hz, phase-interval controlled mode

	up to
A COMPANY	

to 3x 2 kW/kVA	TS 3x2 kW-0	51.13.100	1.841,-

TSG & TSG-0

Thyristor controlled dimmers

Operating in the phase-controlled and phase-interval controlled mode

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

TSG load dimmers operating in the phase-controlled (leading edge) mode

Thyristor controlled dimmer operating in the phase controlled mode for the control of incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and dimmable power LEDs.

Pushbutton operated in wall-mounted or wall-recessed design (please add the respective designation for the type) with integrated MCBs. To be controlled with pushbutton panels. Pushbutton functions: bright, dark, stop, light value setting (preselection).

1-phase TSG-plug in module with wall-mounted or wall-recessed housing: 230 V/AC, 50 Hz, phase-controlled mode

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,-

AP: wall-mounted, UP: wall-recessed

3-phase TSG-plug in module with wall-mounted or wall-recessed housing: 3x 230/400V, 50 Hz, phase-controlled mode

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: wall-mounted, UP: wall-recessed

TSG-0 load module, operating in the phase-interval controlled (trailing edge) mode

for the pushbutton control of incandescent lamps, low-voltage halogen lamps with electronic transformers, high-voltage halogen lamps and dimmable power LEDs.

Pushbutton operated dimming controls in wall-mounted or wall-recessed design (please add the respective designation for the type) with integrated MCBs. To be controlled with pushbutton panels. Pushbutton functions: bright, dark, stop, light value setting (preselection).

1-phase TSG-0 plug in module with wall-mounted or wall-recessed housing: 230 V/AC, 50 Hz, phase-interval controlled mode

up to 2 kW/kVA	TSG 2 kW-0	51.04.105	982,-
A Dirivally many stand I I Dirivally managed			

AP: wall-mounted, UP: wall-recessed



3-phase TS-0 plug in module with wall-mounted or wall-recessed housing: 3x 230/400 V, 50 Hz, phase-interval controlled mode

up to 3x 2 kW/kVA	TSG 3x2 kW-0	51.13.105	2.045,-

AP: wall-mounted, UP: wall-recessed



TH-EIB/P & TH-EIB/P-0

Thyristor controlled dimmers

Operating in the phase-controlled and phase-interval controlled mode

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

TH-EIB/P - load dimmers operating in the phase-controlled (leading edge) mode with programmable KNX switch dim actuator

Backplate-mounted in cabinets (optional wall-mounted or wall-recessed housing) for the control of incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and dimmable power LEDs.



1-phase TH-EIB/P plug in module with KNX switch dim actuator, 0-10V/1-10V and scene memory for 25 scenes: 230 V, 50 Hz, phase-controlled 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,-

3-phase TH-EIB/P plug in module with KNX switch dim actuator, 0-10V/1-10V and scene memory for 25 scenes: 2x 220/400 V 50 Hz, phase-controlled mode

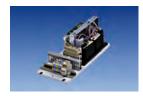
3x 230/400 V, 50 Hz, phase-controlled mode						
up to 3x 2 kW/kVA	TH-EIB/P 3x2 kW	80.11.000	1.288,-			
up to 3x 3 kW/kVA	TH-EIB/P 3x3 kW	80.11.001	1.503,-			
up to 3x 5 kW/kVA	TH-EIB/P 3x5 kW	80.11.002	1.580,-			
up to 3x 8 kW/kVA	TH-EIB/P 3x8 kW	80.11.003	1.965,-			

TH-EIB/P-0 load module, operating in the phase-interval controlled (trailing edge) mode with 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.

Mounting plate with terminal blocks and plug-on load and control module. Lighting control with integrated KNX switch-dim actuator, 0-10V/1-10V and scene memory for 25 scenes.

1-phase TH-EIB/P-0 plug in module with KNX switch dim actuator, 0-10V/1-10V and scene memory for 25 scenes: 230 V, 50Hz, phase-interval (trailing edge) controlled mode



	up to 2 kW/kVA	TH-EIB/P 2 kW-0	80.02.100	690,-
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3-phase TH-EIB/P-0 plug in module with KNX switch dim actuator, 0-10V/1-10V and scene memory for 25 scenes: 3x 230/400 V, 50 Hz, phase-interval (trailing edge) controlled mode



up to 3x 2 kW/kVA	TH-EIB/P 3x2 kW-0	80.11.100	1.602,-

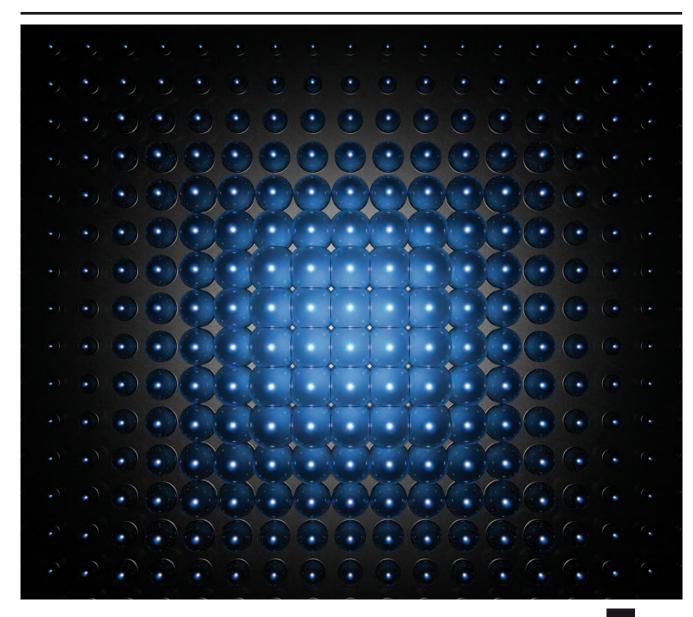
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ELECTRONIC GMBH



Dimmers and lighting controls for Power-LEDs (230V)



Dimmers and lighting controls for dimmable Power-LEDs (230V)

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	AQ-Load dimmer 10A (max. 2KW/KVA)	AQ 2 KW	50.13.210	264,-
	Phase-controlled (leading-edge) dim high-voltage halogen lamps, low-vol formers, power LEDs (230V), neon l	tage halogen lamps with wi	re-wound trans-	
	AQ-0 Load dimmer (max_1_4kW/KVA)	AQ-0 1,4 KW	50.13.111	264,-



(max. 1,4kW/KVA)
Phase-interval (lagging edge) controlled dimmer for the control of electronic
transformers for low-voltage halogen lamps, incandescent lamps, high-voltage
halogen lamps and power LEDs (230V) (remote potentiometers: see page 40)



AQ-0 Universal dimmer	AQ 1500-MFU	50.13.000	311,-
(max. 1,5kW/KVA)			
Discourse and collection of a basis of the second second	and the Hand off an end of the factor		

Phase-controlled and phase-interval controlled dimmer with integrated control functions:

Examples for applicable control panels: type CTM 2T (see page 57)

Rotary potentiometer	DPU	51.01.021	26,-
Rotary potentiometer for wall-recessed h	nousings (55mm-	Ø) with rotary ON/OFF	
switch with coverplate (80x80mm) and k	knob.		





	AQ-master control	AQS	50.13.012	153,-
_	Operating in connection with AQ load of	limmer for the comm	non control of a	



maximum of 40 AQ dimmers (remote potentiometers see page 40)

Dimmers and pushbutton panels for dimmable Power-LEDs (230V)

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	1-Pushbutton panel 1-Pushbutton function, suitable for th universal auditorium dimming control Coverplate for wall-recessed housin	type AQ-1500-MFU	80.14.540 NS1-S and	8,60
	2-Pushbutton panel For 2-Pushbutton functions, suitable AQ1500-MFU with the functions 'ON/ Coverplate for wall-recessed housin	BRIGHTER' and DARKER	51	86,-
	4-Pushbutton panel For 4-Pushbutton functions, suitable AQ1500-MFU. Coverplate for wall-recessed housin		51.01.354 Jimmer type	141,-

TH load dimmers for dimmable power LEDs (230V), suitable also for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound or electronic transformers (where applicable).

For the backplate mounting in cabinets

	1-phase TH-plug in module: 230 V/AC, 5	0 Hz, phase-cont	rolled mode	
	Plug-in modules with terminal plate and	TH 2 kW	51.02.000	273,-
Gy,	separate function part.	TH 3 kW	51.02.001	323,-
		TH 5 kW	51.02.002	439,-
		TH 8 kW	51.02.003	564,-
	1-phase TH-O plug in module: 230 V/AC phase-interval (trailing edge) controlled			
	Plug-in modules with terminal plate and separate function part.	TH 2 kW-0	51.02.100	396,-

Auditorium control and pushbutton panels for dimmable Power-LEDs (230V)

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	3-pushbutton auditorium control	NS2-X	50.13.030	349,-
Entrovisión MS 3-2 Conservation	The NS2-X is suitable for the common con with the following functions: 1 x BRIGHTER (Lighting goes into its maxi 1 x DARKER (lighting goes to 0) 1 x ON/OFF	·	Q-load dimmers	
	Applicable control panel, Type CTM 3T			

	1/0		
C	^		
1	V	1	

3-Pushbutton panel	CTM3T	51.01.322	126,-
For 3-Pushbutton functions, suitable for	the controls type NS	S2-X and NS2-SX	
with the functions 'BRIGHTER-DARKER-	ON/OFF'.		

Coverplate for wall-recessed housings 55 mm

KNX – Dimmers and lighting controls for dimmable Power-LEDs (230V)

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
Ī	ALTODIM 2000	IBDA 2000	80.13.063	305,-
*	Phase-controlled load-dimmer (leading-edg control for incandescent lamps, high-voltage lamps with wire-wound transformers and neo automatic overload protection) and for Power	halogen lamps, lo on lamps for up to	w-voltage halogen	

Without internal scene memory.

		Phase-interval-control
	•	nal pushbutton contro
	EIS KNX CE	
Altodim 1400.0	mys.00 -	mers, incandescent la
CONTRACTOR CARDING CARDING TO A CARDING TO A CARDING	Addressed	VA (with automatic ov
		With automatio ov

ALTODIM 1400-0IBDA 1400-080.13.064Phase-interval-controlled load-dimmer (lagging-/trailing-edge mode) with exter-
nal pushbutton control for low-voltage halogen lamps with electronic transfor-
mers, 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.



ALTODIM 1500 U	IBDA 1500U	80.13.070	311,-
Universal-dimmer (with automatic load-deter	ction of leading- o	r trailing-/lagging-	
edge control mode) for electronic transforme	rs, incandescent la	amps, low-voltage	
halogen-lamps with conventional transforme	ers (inductive) for	up to 1500 W/VA	
(with automatic overload protection) and for	dimmable Power-I	LEDs (230 V).	

Without internal scene memory.

KNX – LED Dimmers as before, however programmable with an internal memory for up to 25 scenes.

	ALTODIM 2000/P	IBDA 2000/P	80.13.163	368,-
EI3 ((RUSHI 2000) ID 0 GT	Phase-controlled load-dimmer (leading-e mory (for up to 25 scenes) and with extern lamps, high-voltage halogen lamps, low-v transformers and neon lamps for up to 20 tection) and for Power-LEDs (230 V).	nal pushbutton control oltage halogen lamps	for incandescent with wire-wound	
	With internal scene memory for up to 25	individual scenes.		
	ALTODIM 1400-0/P	IBDA 1400-0/P	80.13.164	368,-



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.

305,-

Dimmers and lighting controls for dimmable Power-LEDs (230V)

			P	rice/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

TH-EIB/P - load dimmers operating in the phase-controlled (leading edge) mode with programmable KNX switch dim actuator

Backplate-mounted in cabinets (optional wall-mounted or wall-recessed housing) for the control of incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and dimmable power LEDs.



1-phase TH-EIB/P plug in module with KNX switch dim actuator. 0-10V/1-10V and scene memory for 25 scenes: 230 V, 50 Hz, phase-controlled 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,-

3-phase TH-EIB/P plug in module with KNX switch dim actuator, 0-10V/1-10V and scene memory for 25 scenes: 3x 230/400 V 50 Hz nhase-controlled mode

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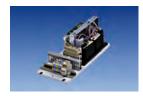
3X 23U/4UU V, 5U HZ, pnase-co	ontrollea moae		
up to 3x 2 kW/kVA	TH-EIB/P 3x2 kW	80.11.000	1.288,-
up to 3x 3 kW/kVA	TH-EIB/P 3x3 kW	80.11.001	1.503,-
up to 3x 5 kW/kVA	TH-EIB/P 3x5 kW	80.11.002	1.580,-
up to 3x 8 kW/kVA	TH-EIB/P 3x8 kW	80.11.003	1.965,-

TH-EIB/P-0 load module, operating in the phase-interval controlled (trailing edge) mode with 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.

Mounting plate with terminal blocks and plug-on load and control module. Lighting control with integrated KNX switch-dim actuator, 0-10V/1-10V and scene memory for 25 scenes.

> 1-phase TH-EIB/P-O plug in module with KNX switch dim actuator, 0-10V/1-10V and scene memory for 25 scenes: 230 V, 50Hz, phase-interval (trailing edge) controlled mode



	up to 2 kW/kVA	TH-EIB/P 2 kW-0	80.02.100	690,-
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3-phase TH-EIB/P-0 plug in module with KNX switch dim actuator, 0-10V/1-10V and scene memory for 25 scenes: 3x 230/400 V, 50 Hz, phase-interval (trailing edge) controlled mode



up to 3x 2 kW/kVA	TH-EIB/P 3x2 kW-0	80.11.100	1.602,-

Dimmers for dimmable Power-LEDs (230V)

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)

LED wall-recessed dimmers for dimmable power LEDs for 55 mm-Ø housings or for DIN rail systems. The dimmers have a load capacity of 1000VA. They are also suitable for the control of incandescent lamps, high-voltage halogen lamps and low-voltage halogen lamps with wire-wound transformers where applicable.

EHR/DE 1000VA	EHR/DE 1000VA	50.06.102	47,40
wall-recessed dimmer module with rotary 800VA, without coverplate and knob in con mary coverplates and knobs.		0-	
 Shaft = 4 mm- \emptyset			

EHR/AX 1000VA	EHR/VX	55.06.002	48,50
	1000VA		

As before, however with ALTOFLEX-coverplates



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 $Shaft = 6 \text{ mm-}\emptyset$

1	~	
1		
1	/	

 EHR/NV 1000VA
 EHR/NV 1000VA
 50.06.020
 50,90

 Dimmer for DIN rail systems 1000VA,
 50.000
 50.000
 50.000

with rotary ON/OFF switch, including housing and knob.



Table dimmer 400VA	TD 400VA	50.08.004	67,20
Trapeze formed table dimmer with a load cap	,		
and rotary potentiometer with rotary ON/OFF	- switch.		

Multi-Sensor-Dimmers and Switches for dimmable Power-LEDs (230V)

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)			
	Multi-Sensor-Dimmer	MSD*	50.13.500	86,-			
	Constant light controller with presence dete the device or via an external pushbutton.	ection and set-poi	int adjustment at				
	Ceiling surface mounting design.						
	Multi-Sensor-Dimmer	MSD/R	50.13.500R	105,-			
	Described as before.						
	Ceiling recessed mounting design with round cover, color white.						
	Extremely flat design, height max. 8 mm.						
ALC ALC	With mounting spring clamps.						
	Multi-Sensor-Dimmer	MSD/Q	50.13.500Q	105,-			
	Described as before.						
	Ceiling recessed mounting design with square cover, color white.						
	Extremely flat design, height max. 8 mm.						
100	With mounting spring clamps.						
	* Surcharge for all sensors with connected	UV-resistant cab	le (1.5 m): 14,00 Euro	0			

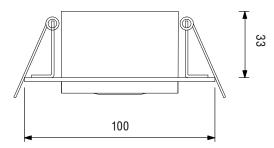


Illustration with tensed spring, diameter of drill holes, 90 mm.

Also the ceiling recessed sensors comprise a mounting plate and a functional part.



ELECTRONIC GMBH

Dimmer

Up to 1000 W/VA load



Dimmer up to 1000 W/VA

wall-recessed design

Dimmer with coverplate and rotary knob wall-recessed Altoflex (AX)-design 71 x 71 mm light beige Dimmer without coverplate and rotary knob with 4 mm Ø axis in wall-recessed design





	Order-No.	Euro/Piece	Order-No.	Euro/Piece
Dimmers for incandescent lamps and	high-voltage	halogen lamp	S	
60 – 400 W with rotary on/off-switch	55.03.001	20,80	50.03.101	18,80
60 – 600 W with rotary on/off-switch	55.04.000	26,40	50.04.100	24,40
60 – 800 W with rotary on/off-switch	55.05.000	36,-	50.05.100	34,-
60 – 1000 W with rotary on/off-switch	55.07.000	44,-	50.07.100	42,-
60 – 400 W with push-changeover switch	55.03.002	22,80	50.03.102	20,80
60 – 600 W with push-changeover switch	55.04.001	28,40	50.04.101	26,40
60 – 800 W with push-changeover switch	55.05.001	38,-	50.05.101	36,-
60 – 1000 W with push-changeover switch	55.07.001	46,-	50.07.101	44,-

Dimmers for the control of low-voltage halogen lamps with wire-wound transformers

15 – 500 W with rotary on/off-switch	55.20.000	47,-	50.20.100	45,-
\dots 15 – 500 W with push-changeover switch	55.20.002	49,-	50.20.102	47,-

Dimmers (phase-interval control mode with electronic transformers	e) for the contro	l of low-volta	age halogen	lamps
15 – 350 W with push-changeover switch	55.30.010	58,-	50.30.110	56,-
Speed controller for fans and ventilators				
20 – 800 VA with push-changeover switch	55.06.003	46,-	50.06.103	44,-

Dimmer up to 1000 W/VA

DIN rail and wall-mounted

Dimmer for DIN rails with coverplate and rotary knob Dimmer in wall-mounted design with housing and rotary knob





Order-No.	Euro/Piece	Order-No.	Euro/Piece
high-voltage	halogen lamp	s	
50.03.007	24,80	56.03.001	32,80
50.04.005	28,40	56.04.000	36,40
50.05.005	38,-	56.05.000	46,-
50.07.005	46,-	56.07.000	54,-
50.03.008	26,80	56.03.002	34,80
50.04.006	30,40	56.04.001	38,40
50.05.006	40,-	56.05.001	48,-
50.07.006	48,-	56.07.001	56,-
	high-voltage 50.03.007 50.04.005 50.05.005 50.07.005 50.03.008 50.04.006 50.05.006	high-voltage halogen lamp 50.03.007 24,80 50.04.005 28,40 50.05.005 38,- 50.07.005 46,- 50.03.008 26,80 50.04.006 30,40 50.05.006 40,-	I high-voltage halogen lamps 50.03.007 24,80 56.03.001 50.04.005 28,40 56.04.000 50.05.005 38,- 56.05.000 50.07.005 46,- 56.07.000 50.03.008 26,80 56.03.002 50.04.006 30,40 56.04.001 50.05.006 40,- 56.05.001

Dimmers for the control of low-voltage halogen lamps with wire-wound transformers

j -				
15 – 500 W with rotary on/off-switch	50.20.010	56,-	56.20.000	64,-
15 – 500 W with push-changeover switch	50.20.012	58,-	56.20.002	66,-
Dimmers (phase-interval control mode) for the contro	l of low-volt	ano halonon la	mns
with electronic transformers			age nalogen la	
15 – 350 W with push-changeover switch	50.30.030	62,-	56.30.010	70,-
Speed controller for fans and ventilato	ors			
20 – 800 VA with push-changeover switch	50.06.014	48,-	56.06.003	56,-

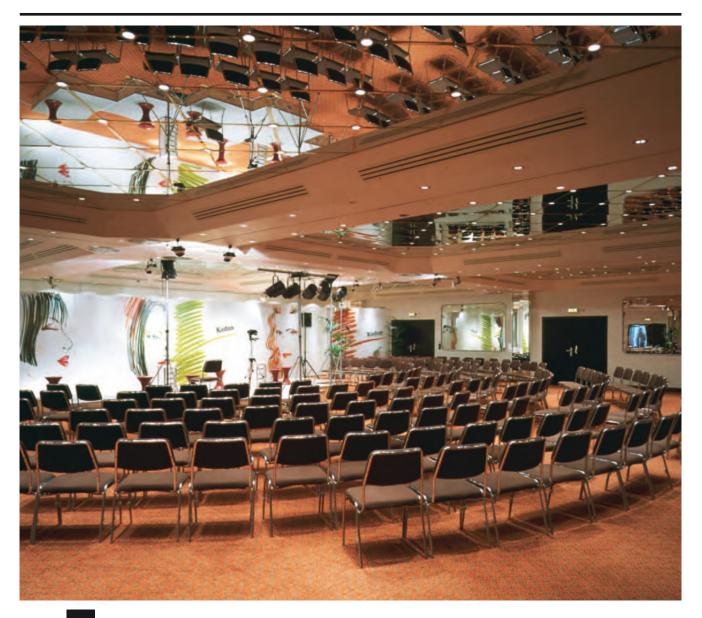


ALTENBURGER ELECTRONIC GMBH

THYRODYN

STAGE LIGHTING CONTROLS

AND ACCESSORIES



THYRODYN **STAGE LIGHTING CONTROLS AND ACCESSORIES**

Illustration

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_			

Specification	Туре	Order-No.	(Euro)
Dimmer Rack Cabinet	GPL6		2.300,-
for 6 lighting circuits with main switch, MC cuit breaker, transformer with fuse, latchi buttons with indicator LED and protectiv modules.	ng relay, DMX, pus	sh-	

Load modules

2 kW	30.04.006	203,-
3 kW	30.04.007	225,-
5 kW	30.04.008	310,-
8 kw	30.04.009	465,-
2 kW-0 Phase-interval controlled modules	30.04.030	310,-
2x 2 kW (only for GPL/2+2)	30.04.040	320,-

Dimmer Rack Cabinet	GPL6/2+2	2.400 ,–
for 12 lighting circuits with main sy circuit breaker, transformer with fuse	, latching relay, DMX, push-	
buttons with indicator LED and pro modules.		

Price per load module 2x2KW: see above

Dimmer Rack Cabinet	GPL12	3.220,-
for 12 lighting circuits with main sw circuit breaker, transformer with fuse buttons with indicator LED and pro modules.	, latching relay, DMX, push-	
Price per load modules: see abov	e	
Dimmer Rack Cabinet	GPL12/2+2	3.500,-
for 24 lighting circuits with main sy circuit breaker, transformer with fuse	, latching relay, DMX, push-	

buttons with indicator LED and protective cover without load modules.

Price per load module 2x2KW: see above

Price/Piece

THYRODYN STAGE LIGHTING CONTROLS AND ACCESSORIES

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Dimmer Rack Cabinet	GPL18		4.100,-
	for 18 lighting circuits with main sw leakage circuit breaker, transformer Mux-Box (72k), pushbuttons with in cover without load modules.	r with fuse, latching relay,		
Image: Second	Price per load module: see page 6	67		
	Dimmer Rack Cabinet	GPL18/2+2		4.220,-
	for 36 lighting circuits with main sw leakage circuit breaker, transformer Mux-Box (72k), pushbuttons with in cover without load modules.	r with fuse, latching relay,		
	Price per 2x2KW load module: see	e page 67		
	Dimmer Rack Cabinet	GPL24		4.970,-
100	for 24 lighting circuits with main sw			4.970,-
	leakage circuit breaker, transformer Mux-Box (72k), pushbuttons with in cover without load modules.	r with fuse, latching relay,		
REFERENCE ADDRESS	Price per load module: see page 6	67		
	Dimmer Rack Cabinet	GPL24/2+2		5.200,-
	for 48 lighting circuits with main sw leakage circuit breaker, transformer Mux-Box (72k), pushbuttons with in cover without load modules.	r with fuse, latching relay,		
	Price per 2x2KW load module: see	e page 67		
	Dimmer Rack Cabinet	GPL36		6.560,-
	for 36 lighting circuits with main swit leakage circuit breaker, transformer v Mux-Box (72k), pushbuttons with inc cover without load modules.	with fuse, latching relay,		,
LICE DECEMBER 400	Price per load module: see page 6	67		
Tratak Narazat 1	Dimmer Rack Cabinet	GPL36/2+2		6.850,-
	for 72 lighting circuits with main sw leakage circuit breaker, transformer Mux-Box (72k), pushbuttons with in cover without load modules.	r with fuse, latching relay,		
	Price per 2x2KW load module: see	e page 67		

THYRODYN STAGE LIGHTING CONTROLS AND ACCESSORIES

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
		PL 12		830,-
	Memory programmable Stage lighting control board for 12 lighting circuits			,
		PL 24		1.420,-
	Memory programmable Stage lighting control board for 24 lighting circuits			
No. 2		PL 16/24		2.980,-
	Memory programmable Stage lighting control board for 24 lighting circuits for professional applications			
		PL 16/36		5.580,-
	Memory programmable Stage lighting control board for 36 lighting circuits for professional applications			`
		PL 16/48		6.500,-
	Memory programmable Stage lighting control board for 48 lighting circuits for professional applications			

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Flood and soft light Individual spot 240W with symmetric (optional asymmetric reflector)	FLS300 aluminium reflector		132,-
	 (optional asymmetric reflector) Incl. 1,5 m silicone cable with pro Protective grid C-hook for 50 mm tube Safety rope (Safeking) Lamp Filter frame 244 x 195 mm 	otective plug		
	Flood and soft light	FL\$500		132,-
	Individual spot 400W with symmetric (optional asymmetric reflector)	aluminium reflector		
	 Incl. 1,5 m silicone cable with pro Protective grid C-hook for 50 mm tube Safety rope (Safeking) Lamp Filter frame 244 x 195 mm 	otective plug		
	Flood and soft light	FLS1000		308,-
	Individual spot 1000W with symmetric (optional asymmetric reflector)	c aluminium reflector		
	 Incl. 1,5 m silicone cable with pre Protective glass 	otective plug		
	C-hook for 50 mm tubeSafety rope (Safeking)			
	 Lamp 			
	• Filter frame 290 x 270 mm			
	Top and back light Cyclorama,	4-fold RAMPE4S		485,-
विद्यस्ति				485,-
	Top and back light Cyclorama, with flood lamp FLS300Individual spot 240W with symmetric (optional asymmetric reflector)Incl. 4x 1,5 m silicone cable with Protective glass	aluminium reflector		485,-
ara	Top and back light Cyclorama, with flood lamp FLS300Individual spot 240W with symmetric(optional asymmetric reflector)Incl. 4x 1,5 m silicone cable with	aluminium reflector		485,-
	Top and back light Cyclorama, with flood lamp FLS300Individual spot 240W with symmetric (optional asymmetric reflector)Incl. 4x 1,5 m silicone cable with Protective glassC-hook for 50 mm tube	aluminium reflector		485,-

Fresnel lense spot Suono F650 plus (7-60°) With Fresnel lense 120 mm Ø, glass m soft focusing, optical adjustable light and broad, soft edge • Incl. 1 m silicone cable with prote			242,-
 soft focusing, optical adjustable light and broad, soft edge Incl. 1 m silicone cable with protection 			
 Filter frame 150 x 150 mm Protective grid Lamp 650 W 	ective plug		
 C-hook Safety rope (Safeking) 			
Fresnel lense spot Nota F1000 plus (10-56°)	STL1000		340,-
-			
 Filter frame 185 x 185 mm Protective grid Lamp 1000 W 	ective plug		
C-hookSafety rope (Safeking)			
Fresnel lense spot Tono F2000 plus (7-60°)	STL2000		520,-
	 Lamp 650 W C-hook Safety rope (Safeking) Fresnel lense spot Nota F1000 plus (10-56°) With Fresnel lense 150 mm Ø, glass m soft focusing, optical adjustable light and broad, soft edge Incl. 1 m silicone cable with prote Filter frame 185 x 185 mm Protective grid Lamp 1000 W C-hook Safety rope (Safeking) Fresnel lense spot Tono F2000 plus (7-60°)	 Lamp 650 W C-hook Safety rope (Safeking) Fresnel lense spot STL1000 Nota F1000 plus (10-56°) With Fresnel lense 150 mm Ø, glass mirror 100 mm Ø, GX9,5 soft focusing, optical adjustable light area with harsh centre and broad, soft edge Incl. 1 m silicone cable with protective plug Filter frame 185 x 185 mm Protective grid Lamp 1000 W C-hook Safety rope (Safeking) Fresnel lense spot STL2000	 Lamp 650 W C-hook Safety rope (Safeking) Fresnel lense spot STL1000 Nota F1000 plus (10-56°) With Fresnel lense 150 mm Ø, glass mirror 100 mm Ø, GX9,5 soft focusing, optical adjustable light area with harsh centre and broad, soft edge Incl. 1 m silicone cable with protective plug Filter frame 185 x 185 mm Protective grid Lamp 1000 W C-hook Safety rope (Safeking) Fresnel lense spot STL2000 Tono F2000 plus (7-60°)

With Fresnel lense 200 mm Ø, glass mirror 87,5 mm Ø, G22 soft focusing, optical adjustable light area with harsh centre and broad, soft edge

- Incl. 1 m silicone cable with protective plug
- Filter frame 245 x 245 mm
- Protective grid
- Lamp 2000 W
- C-hook
- Safety rope (Safeking)

				Price/Piece
Illustration	Specification	Туре	Order-No.	(Euro)
	Profile spot Suono pc650 plus (7-58°) With Fresnel lense 120 mm Ø, glas soft focusing, optical adjustable lig and broad, soft edge			242,-
	 Incl. 1 m silicone cable with p Filter frame 150 x 150 mm Protective grid Lamp 650 W C-hook Safety rope (Safeking) 	rotective plug		
	Profile spot Nota pc1000 plus (8-60°)	PLS1000		340,-
	 With Fresnel lense 150 mm Ø, glassoft focusing, optical adjustable ligand broad, soft edge Incl. 1 m silicone cable with p Filter frame 185 x 185 mm Protective grid Lamp 1000 W C-hook Safety rope (Safeking) 	ght area with harsh centre		
	Profile spot Tono pc2000 plus (9-70°)	PLS2000		520 ,–
	With Fresnel lense 200 mm Ø, glas soft focusing, optical adjustable lig and broad, soft edge			
	 Incl. 1 m silicone cable with p Filter frame 245 x 245 mm Protective grid Lamp 2000 W C-hook Safety rope (Safeking) 	rotective plug		

Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Double condenser optic Profile spot Suono 10/28	PRS650		450,-
	Double condenser optic Profile spot Suono 20/40	PRS650		450,-
	Profile spot with rotatable insertion, G	Y9,5		·
	 Incl. 1,5 m silicone cable with pro 4 shadower 	tective plug		

- Filter frame 125 x 125 mm
- Protective grid
- Lamp 650 W
- C-hook
- Safety rope (Safeking)

Double condenser optic Profile spot Nota 8/22	PR\$1000	812,-
Double condenser optic Profile spot Nota 18/36	PR\$1000	812,-
Double condenser optic Profile spot Nota 30/65	PR\$1000	812,-

Profile spot with rotatable insertion, GX9,5

- Incl. 1,5 m silicone cable with protective plug
- 4 shadower
- Filter frame 185 x 185 mm
- Protective grid
- Lamp 1000 W
- C-hook
- Safety rope (Safeking)



Illustration	Specification	Туре	Order-No.	Price/Piece (Euro)
	Halogen follow spot Canto 1200TH MK2	VS1200TH		1.270,-
	With double condenser optic for 1000 with zoom optic, ventilation support, v	• •		
	ON/OFF switching and adjustable GX9,5 holder			
	 Incl. 2 m silicone cable with prote Iris 	ective plug		
	 Filter frame 185 x 185 mm Rotary plug 28 mm for tripods 			
	Built-in dimmer			
	Tripod for halogen follow up spo	ot ST-070U		160,-
	Chrome-plated or black coloured tripo	· · · ·		
	1 adjustable tripod leg. With memory-	8		

justment. Maximum stand area: 109 cm in diameter minimum height 88 cm, max. height 147 cm

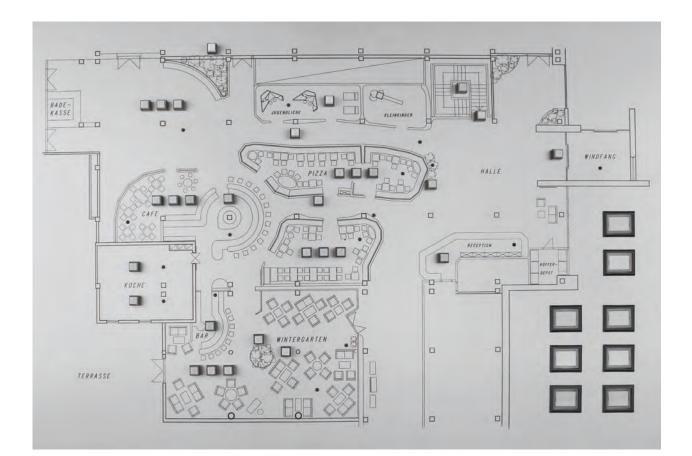
- Max load 40 kgs
- Own weight: 6,8 kgs





CONTROL PANELS

Layouts, pushbutton and potentiometer control panels



Panels Stainless steel pushbuttons and -surfaces

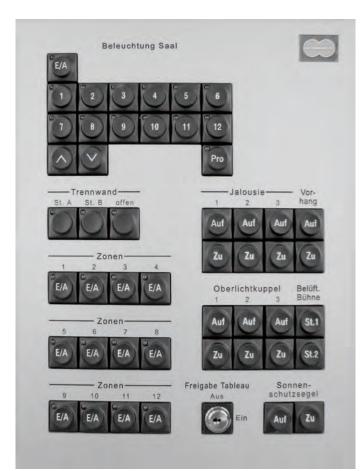




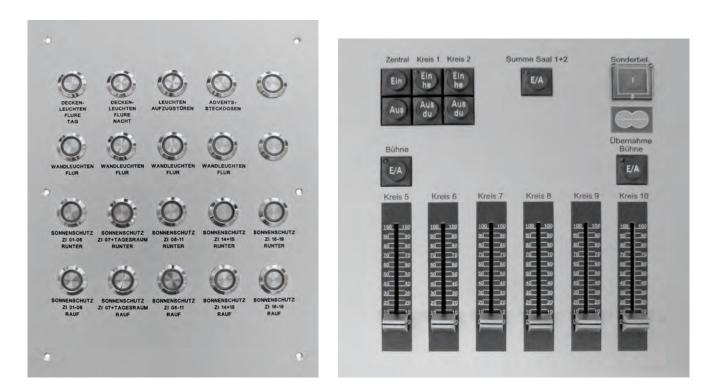




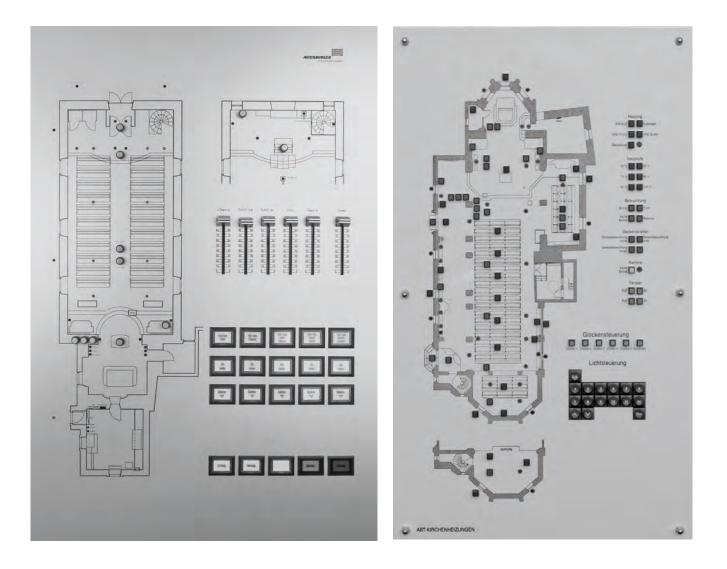
Panels Pushbutton and potentiometer control panels

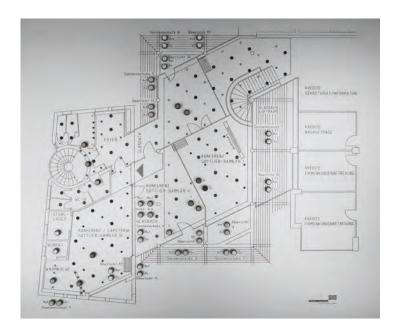




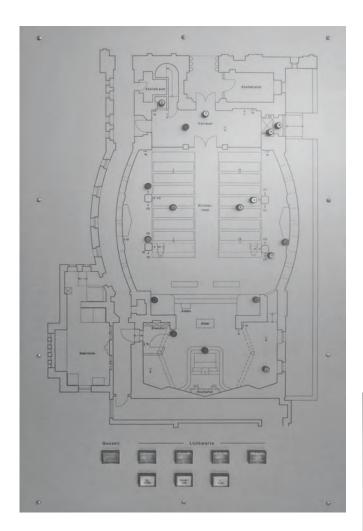


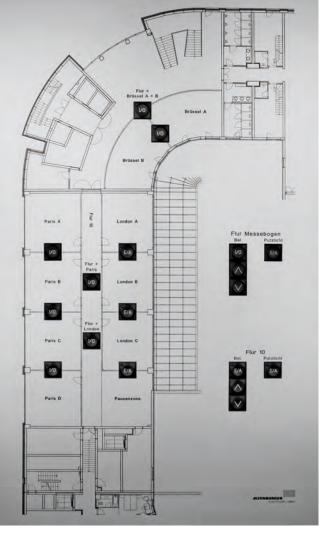
Layout panels





Layout panels





Delivery: Delivery time: Payment: Guarantee: FOB within 1 week c/d 12 months







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