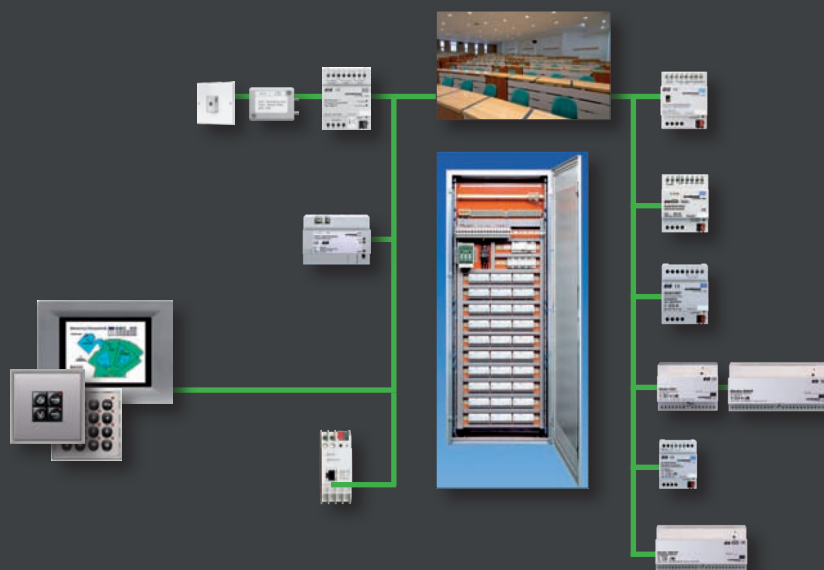


KNX Programmable Dimming Control Systems

- Auditorium Dimming Controls -



ALLENBURGER
ELECTRONIC GMBH



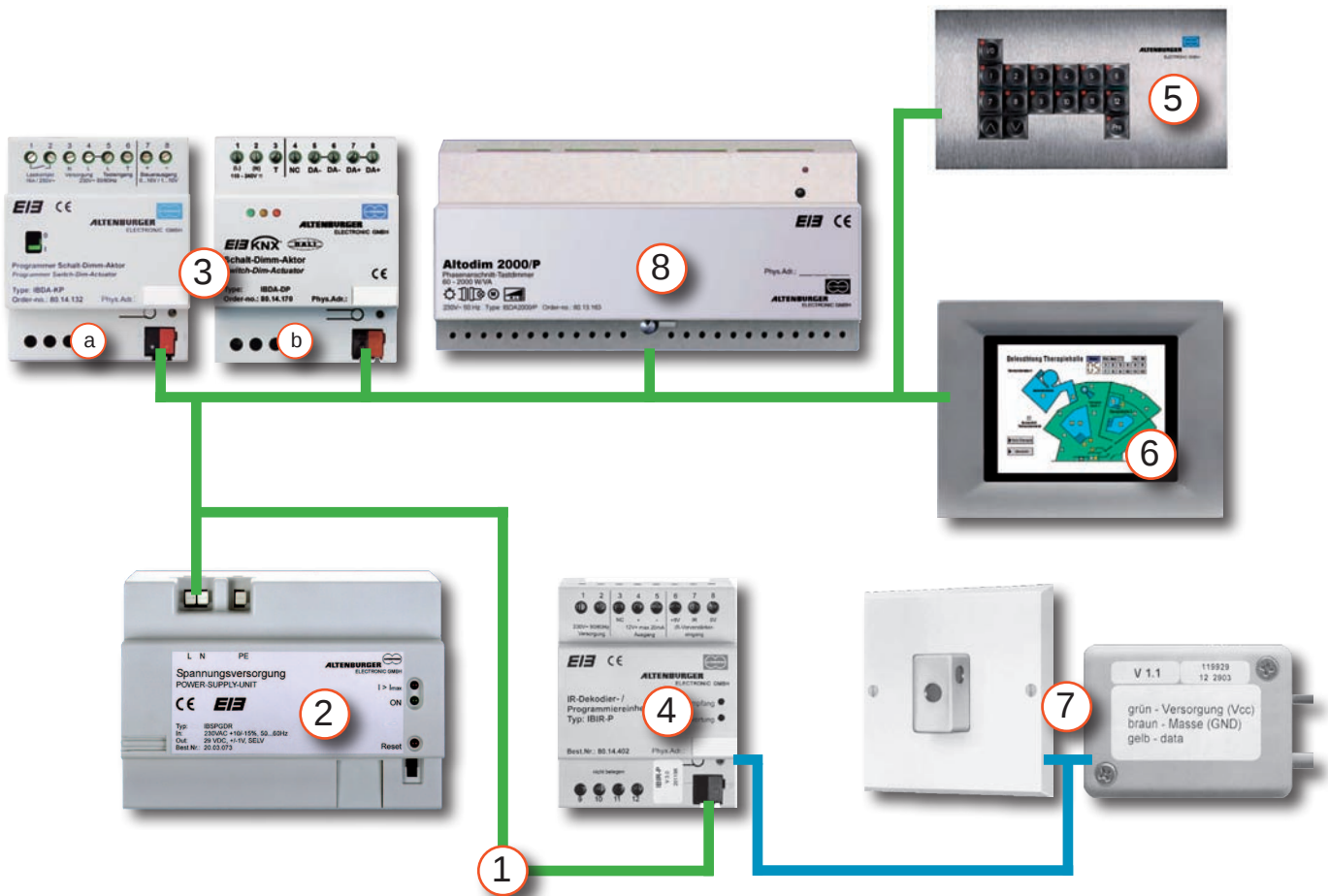
The KNX Programmable Dimming Control System features a variety of functions, compact design and simple programming and handling.

It is of highest quality and reliability. The most important components are suitable for DIN rail systems. All dimmers are comprising two parts: a baseplate with terminal blocks which can be prewired after the mounting and a function part just to be plugged onto the baseplate just before bringing the system into service.

The system operates with all dimmable lighting, with electronic ballasts or transformers with 1-10 V interface, load dimmers operating in the phase-controlled (leading edge) mode or in the phase-interval controlled (lagging or trailing edge) mode, with DALI-ballasts etc. All load dimmers are thyristor controlled (not with triacs).

The programming of scenes, fade times (1-9999 secs) as well as special functions (e.g. cleaning or passage lighting) and their selection is quite easily to be made with radio or IR-programmers and transmitters, or push-button or touch panels. The number of programmable lighting circuits is not limited. Combinations with Multi-Sensor-Dimmers, operating in dependence of the daylight and presence detection can be integrated into the system.

The combination of KNX-components, dimmers and control panels



1. Bus wiring (PYCY M 2x2x0,8mm²) or (JY [ST] Y 2x2x0,8 mm²) or (SYT 1 PE 2x2x0,8 mm²)
2. Bus-power supply
3. Actuators with programmable bus-coupling units:
 - a) the dim-switch actuator, type IBDA-KP is suitable for the control of up to 100 electronic ballasts with 1-10V interface or 5 ALTENBURGER dimmers (0-10V interface). It has 25 internal scene memories (see page 6)
 - b) The switch dim-actuator, type IBDA-DP is the KNX DALI-switch dim-actuator for the control of up to 100 DALI-ballasts. It has 25 internal scene memories as well (see page 6).
4. IR-decoder/programming unit
5. Scene selector pushbutton panels
6. Touch panels
7. Radio or IR-receiver
8. programmable load dimmers

KNX Components for programmable dimming control systems

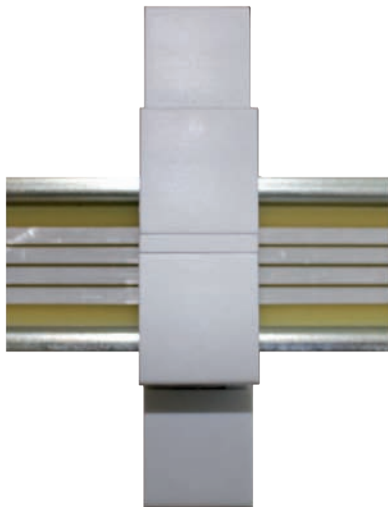


Bus-voltage supply

Bus-voltage supply (230V primary 24 V secondary), maximal 320 mA.

Suitable for a maximum of 64 dim-actuators or sensors

Bus-voltage supply as above, however with a maximum of 640 mA



Connector



For all transfers or voltage-supplies a pair of wires (2x2x0,8mm²) is applicable on which the bus components are snapped on. One pair has the actual tasks the other one is reserve, e.g. if one pair of wires is damaged.

For the supply and distribution of the bus wires connectors are to be used.






Radio or IR-programming and selector units

Illustration	Description	Type	Order-No.:
	<p>Handheld IR-programmer or radio-programmer</p> <p>Remote Controls with the same pushbuttons as control panels (see page 9)</p> <p>Handheld-IR-transmitters for the selection of 12 x lighting scenes 6 x Lighting scenes</p> <p>The transmitters can be operated in parallel to pushbutton or Touch Panels.</p> <p>Radio-transmitter Functions identical with the IR-transmitter. The Handheld IR- or Radio transmitters can be extended through switch and other functions</p> <p><u>Standard design:</u> Housing: black Plate: aluminium anodized, natural colour Pushbuttons: black</p>	<p>IR/PRO</p> <p>FU/PRO</p> <p>IR 12</p> <p>IR 6</p> <p>FU 12</p> <p>FU 6</p>	<p>50.13.552</p> <p>50.13.547</p> <p>50.13.548</p> <p>50.13.549</p> <p>50.13.550</p> <p>50.13.551</p>
	<p>Control for divided rooms (Assigner)</p>	IBAS	80.14.550
			
		<p>IR-sensor (like illustration)</p> <p>IR-sensor with plastic cover without frame</p>	<p>IR-ES/R</p> <p>IR-E/S</p>
	<p>Radio receiver</p>	FU-E/S	52.10.000
	<p>IR- and radio decoder</p>	IBIR-P	80.14.402

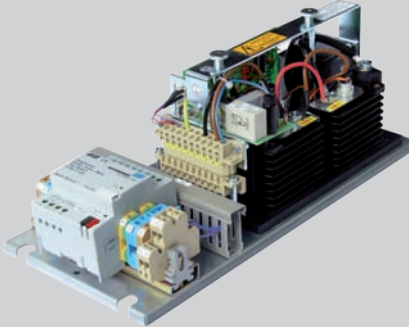
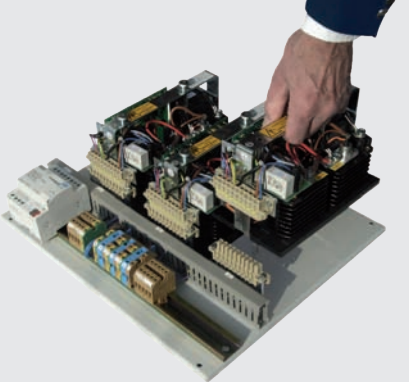
KNX switch dim-actuators with memory for 25 scenes and sequence control with 0-10V, 1-10V and DALI-interfaces

Illustration	Description	Type	Order-No.
	<p>The IBDA-KP is suitable for the control of up to 100 dimmable ballasts with 1-10V interface or 5 AL-TENBURGER dimmers (with 0-10V interface). Via received KNX-Switch- and Dim-commands the connected load can be switched ON/OFF or dimmed between minimum and maximum.</p> <p>The module has a memory for 25 scenes with fade time and corridor / cleaning light control. Additionally an automatic scene sequence can be programmed and selected. With the combination of 3 IBDA-KP modules e.g. a colour sequence control (RGB) can be realized</p> <p>The dim-actuator can be controlled with KNX buttons or a suitable (touch screen) visualization. The actuator however also can be controlled through its pushbutton inlet with a customary pushbutton (1-pushbutton dim-function).</p> <p>For details of parametrizing and objects see application description in the ALTENBURGER KNX handbook.</p>	IBDA-KP	80.14.132
<p>Programmable KNX Switch-Dim-Actuator with internal scene memory for 25 scenes with 1-10V and 0-10 V interface</p>	<p>Application and function:</p>	IBDA-DP	80.14.170
	<p>The KNX DALI switch-dim-actuator is suitable for the control of max. 100 DALI ballasts or transformers and digital -> analog converters. It performs the following functions:</p> <ul style="list-style-type: none"> The integration of DALI ballasts or transformers into KNX-Lighting systems. DALI ballasts are being switched and dimmed with 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 KNX DALI switch-dim-actuators e.g. a colour sequence (RGB) can be programmed. Additionally the KNX DALI switch-dim- actuator is one of the components for a complete KNX-programmable dimming control system (see survey pages 10/11). If the number of DALI-ballasts or of converters exceeds the number of 100, additional KNX DALI switch-dim-actuators can be integrated. 	IBDA-DP	80.14.170
<p>Programmable KNX DALI-Switch-Dim-Actuator with internal scene memory for up to 25 scenes</p>	<ul style="list-style-type: none"> The KNX DALI switch-dim-actuator can be operated with customary KNX-controls or with a suitable visualization. The module however also can be controlled directly with a pushbutton input and a customary pushbutton (1-push-button-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. All connected electronic ballasts have the same address (broadcast). 	IBDA-DP	80.14.170


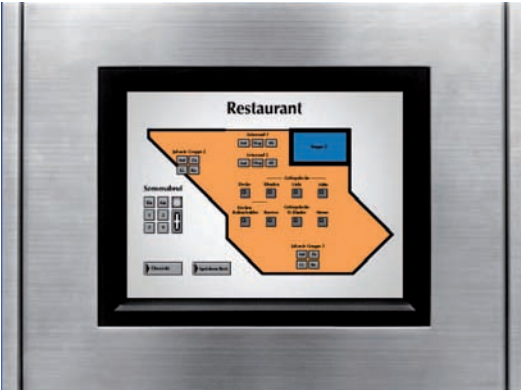
ALTODIM/P KNX dimmers up to a load capacity of 2 KW with internal scene memory

Illustration	Description	Type	Order-No.:
	<p>Phase-interval (lagging edge) controlled dimmer for electronic transformers 600 W/VA ALTODIM 600-0/P</p>	IBDA 600-0/P	80.13.161
	<p>Phase-interval (lagging edge) controlled dimmer for electronic transformers 1400 W/VA ALTODIM 1400-0/P</p>	IBDA 1400-0/P	80.13.164
	<p>Phase-controlled (leading edge) dimmer for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers, neon lamps, 600W/VA ALTODIM 600/P</p>	IBDA 600/P	80.13.165
	<p>Phase-controlled (leading edge) dimmer for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers, neon lamps, 1300W/VA ALTODIM 1300/P</p>	IBDA 1300/P	80.13.162
	<p>Phase-controlled (leading edge) dimmer for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers, neon lamps, 2000W/VA ALTODIM 2000/P</p>	IBDA 2000/P	80.13.163

KNX Load dimmers with integrated scene memory for 25 scenes and sequency controls

Illustration	Description	Type	Order-No.:
<p>Programmable KNX-Dimmers operating in the phase-control (leading edge) mode with integrated KNX Dim-actuator for the backplate mounting in cabinets, being suitable for incandescent lamps, high-voltage halogen lamps, low-voltage halogen lamps with wire-wound transformers and neon lamps with mounting plate and terminal blocks, plug-in load and control components. Functions: see page 7</p>			
 <p data-bbox="217 880 416 936">1-phase TH-plug-in module</p>	<p data-bbox="555 521 730 633">up to 2 KW/KVA up to 3 KW/KVA up to 5 KW/KVA up to 8 KW/KVA</p> <p data-bbox="555 667 770 779">up to 3 x 2 KW/KVA up to 3 x 3 KW/KVA up to 3 x 5 KW/KVA up to 3 x 8 KW/KVA</p>	<p data-bbox="882 521 1002 633">TH-P 2KW TH-P 3KW TH-P 5KW TH-P 8KW</p> <p data-bbox="882 667 1026 779">TH-P 3x2KW TH-P 3x3KW TH-P 3x5KW TH-P 3x8KW</p>	<p data-bbox="1177 521 1289 633">80.02.000 80.02.001 80.02.002 80.02.003</p> <p data-bbox="1177 667 1289 779">80.11.000 80.11.001 80.11.002 80.11.003</p>
 <p data-bbox="217 1451 416 1507">3-phase TH-Plug-in module</p>	<p>Programmable KNX Dimmers operating in the phase-interval (lagging edge) control mode with integrated KNX dim-actuator for the backplate mounting in cabinets, for low-voltage halogen lamps with electronic transformers, incandescent lamps and high-voltage halogen lamps</p>		
<p data-bbox="555 1283 770 1339">up to 2 KW/KVA up to 3 x 2 KW/KVA</p>		<p data-bbox="882 1283 1050 1339">TH-P 2KW-0 TH-P 3x2KW-0</p>	<p data-bbox="1177 1283 1289 1339">80.02.100 80.11.100</p>

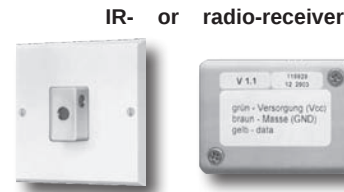
Programmable and selector panels (pushbutton or touch panels)

Illustration	Description	Type	Order-No.:
	<p>KNX Programmable scene selector panel, 81 x 81 mm</p> <p>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</p>	<p>Mini FIB12/PRO</p>	<p>80.14.520</p>
	<p>KNX Programmable scene selector panel</p> <p>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</p> <p>Optional: with interlock key switch.</p> <p>Dimensions (WxHxD): Wall-recessed housing: 200 x 100 x 80 mm Panel plate: 120x220 mm</p>	<p>FIB12w</p>	<p>80.14.531</p>
	<p>Programmable touch panels for up to 25 scenes and additional functions according to requirements.</p>		

System survey KNX PROGRAMMABLE Dimming controls

The system survey indicates the combination of different KNX-components:

- **KNX Switch-Dim-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 ALTENBURGER dimmers from 3 KW onwards.
- **KNX Switch-Dim-Actuators for DALI**
for the direct control of electronic ballasts for fluorescent lamps and electronic transformers with DALI-interface.
- **KNX-Dimmers with integrated dim-actuators**
Phase-controlled or phase-interval controlled dimmers for incandescent lamps, high voltage halogen lamps or low-voltage halogen lamps with wire-wound or electronic transformers.
- **IR- or radio transmitters and decoders**
for the programming and scene selection.
- **Pushbutton or touch panels for the programming and scene selection**
If specified with layouts and integrated lamps and control functions.



IR- / radio-decoder

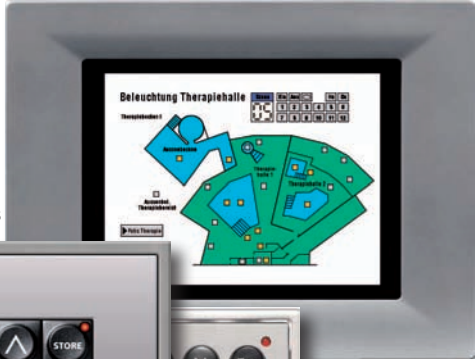


KNX power supply



KNX - BUS

Touch Panels



pushbutton panels



KNX - Gateway



Comfortable KNX-lighting controls with Touch Panels, Visualization, pushbutton panels with the functions:

- **Switching, Dimming, light-level and fade time setting**
- **25 integrated scene memories**
- **Scene sequences**
Scenes to be combined to sequences
e.g. RGB colour controls (3 devices required)
- **Cleaning and corridor light**
- **Shutters**

optional:

- communication with KNX, e.g. via Ethernet, ISDN
- combination with other systems, e.g. PLC, DALI ...
- remote maintenance ...



**Programmable
KNX Switch-Dim-Actuators for 1...10V/0...10V**



Type: IBDA-KP

- 1...10V Electronic ballasts
- electronic transformers with 1...10V interface
- ALTENBURGER dimmers with load capacities of 3-8 KW

**Programmable
KNX Switch-Dim-Actuators for DALI**



Type: IBDA-DP

- DALI-ballasts
- electronic transformers with DALI-interface

**Programmable KNX dimmer with integrated dim-actuators
operating in the phase-controlled (leading edge) mode**



**ALTODIM /P dimmer with load capacities
of 600/1300/2000W VA**

- incandescent or high-voltage halogen lamps
- low-voltage halogen lamps with wire-wound transformers
- neon lamps

Type: IBDA600/P

Type: IBDA1300/P

Type: IBDA2000/P



**Programmable KNX dimmer with integrated dim-actuators
operating in the phase-interval controlled (lagging edge) mode**



**ALTODIM /P dimmer with load capacities of
600/1400W VA**

- incandescent or high-voltage halogen lamps
- low-voltage halogen lamps with electronic transformers

Type: IBDA600-0/P

Type: IBDA1400-0/P



dimmer rack cabinet



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