Implementing Low-Carbon Sustainable Development

Adveco

Adveco Technology Co., Ltd.

Service Hotline: 0510-85386559
Address: 9F, Gygnus B, Wuxi Software Park, 111 Linghu Ave,Xinwu, Wuxi, Jiangsu

Version Number: YQZL-LIGHT-202603-EN

Adveco

LUBAN

Powering the Green Transformation of Intelligent Building Spaces

www.adveco.cn

Smart Space Solution Provider

Advéco

Implementing Low-carbon Sustainable Development

Smart Space Solution Provider

CONTENTS

COMPANY PROFILE

PRODUCT PORTFOLIO

COMPANY PROFILE

About Adveco

Smart Space Solution Provider

Adveco is located in the Wuxi High-tech Development Zone. With intelligent building products as its core, its business covers comprehensive solutions for smart spaces including smart buildings, smart energy, and AIoT. Since its establishment, the company has been committed to becoming a new-generation provider of comprehensive solutions for low-carbon smart building spaces in China. The company has a strong and professional team of experts, R&D personnel, and sales staff. Technologically, Adveco adopts cutting-edge IoT innovation technologies to create a brand-new flat system architecture, making data transmission more real-time and efficient. At the same time, it uses domestic chips and domestic operating systems, and strictly designs products in accordance with international and national standards in the building automation control industry, truly achieving domestic controllability while meeting the technical requirements of overseas markets. Data-wise, Adveco uses machine learning, data analysis, and artificial intelligence algorithms to enable buildings to better understand and meet user needs, creating more efficient, green, environmentally friendly, and low-carbon building spaces.Currently, Adveco is leveraging China as an innovation hub to deepen its presence in the domestic market while accelerating its global expansion. In Southeast Asia, projects have already been successfully implemented in countries such as Thailand and Vietnam. Business operations in the Middle East, Europe, Africa, and other regions are steadily taking shape. In the North American market, strategic groundwork has been laid, and the company is preparing to enter the United States and Canada, progressively building and enhancing a global technology cooperation network.

Innovative Technology

Distributed IoT edge-core framework enabling real-time data processing with deterministic latency, achieving dynamic resource allocation for flexible system scaling.

Domestic Architecture Platform

Adopting China-developed chips and operating systems, our building automation control products strictly comply with international and national standards, ensuring genuine industrial sovereignty and controllability.

User-oriented

Leveraging machine learning, data analytics and AI algorithms, our systems understand and anticipate user needs to create high-efficiency, low-carbon building spaces that advance sustainability.

Sovereign Craftsmanship Independent Leadership

Through proprietary R&D, we break core technological barriers to deliver full-stack domestic solutions, achieving strategic autonomy in critical sectors. With industrial craftsmanship, we ensure product reliability and quality—liberating clients from technical dependencies and pioneering industry self-sufficiency.

Innovation-Propelled Intelligence for Future Leadership

Leveraging cutting-edge technologies, we continuously overcome industry bottlenecks to provide precision-engineered solutions. Powered by AI and coloT, we drive intelligent business transformation for clients, capture emerging market opportunities, and -create next-generation smart ecosystems.

Energy Leapfrogging, Green Pioneering

Innovation-driven high-efficiency products accelerate clients' green transition. Featuring intelligent optimization and energy-conserving design, our solutions reduce energy consumption by 20–30%,align with "Dual Carbon" goals, empower sustainable operations, and spearhead industry-wide eco-development.

People-Oriented and Environmental Coexistence

We design user-focused services around real customer needs. From initial concepts to real-world applications, our solutions deliver both comfort and environmental care. By integrating smart green technologies and proven energy-saving methods, we enable harmony between user needs and environment- turning sustainability commitments into measurable results.

Product Portfolio

LUBANX
Intelligent control system for architectural space

It includes the intelligent building management platform XPlatform, no-code programming builder XControl, XNC series edge controllers and smart terminal products. It adopts an IoT architecture, a flat design, and is fully self-developed with domestic controllability.

LUBANA
Intelligent computing system for architectural space

Integrating software and hardware, aiming to achieve efficient operation and maintenance as well as energy conservation and carbon reduction. The hardware adopts a four layer architecture of edge management and cloud computing, using all domestic chips to provide powerful computing support; Software provides functional support for hardware to achieve intelligent applications.

Adveco

LUBANE
Intelligent efficiency system for architectural space

An integrated platform that combines real-time monitoring, precise analysis and efficient management, focusing on the optimization of carbon emissions and energy consumption. Through functional modules such as real-time data visualization, carbon emission inventory, energy statistics and equipment management, it realizes the full life cycle management of carbon emissions.

LUBANV
Digital platform for architectural space

Creating high-precision virtual models of buildings through digital twin technology, data-driven intelligence is enabled, thereby achieving real-time monitoring and visualization, optimizing control and strategy support, as well as fault diagnosis and predictive maintenance.

Honors and Accreditations

Patent Certificate for Invention

Design Patent Certification

CNAS Testing Certification

Kirin Software Compatibility Certification

Jinrui Science and Technology Award

OHOS Compatibility Certification

Information Security Certification

KNX Certification

Corporate Positioning

Market Positioning

Smart space solution provider

Centered on intelligent building products, our business scope covers comprehensive solutions for smart spaces including building automation, energy and carbon management, and integrated building control and management.

- Real-time visualization of architectural space data
- Intelligent management of comfortable building spaces
- Low-carbon and sustainable development
- Full lifecycle equipment management

Product Focus

Focus on the intelligence of architectural space and create a brand-new series of domestically produced products.

Adopting cutting-edge Internet of Things (IoT) innovation technologies, we create a brand-new flat system architecture. Adopting domestic chips, operating systems and databases, and strictly following national standards for product design, it truly achieves independent control.

- Edge Controller
- All-in-one machine
- Intelligent building management platform
- Architectural space solutions

Field Applications

Focus on multiple application fields and help customers reduce costs and increase efficiency.

The application is widely covered in vertical markets such as industrial and office parks, hospitals, hotels, biomedicine, laboratories, and energy stations, helping customers achieve cost reduction and efficiency improvement.

- High efficiency and low carbon, precise energy savings
- Real-time monitoring, green operation
- Predictive simulation, one-click deployment of AI strategies
- Combination of local control and cloud management

SMART SPACE SOLUTION PROVIDER

空间智能体解决方案服务商

Building Environment Management

- Healthy Environment Creation
- Thermal Comfort Management
- Indoor Air Quality Assurance
- Lighting Environment Optimization
- Environmental Settings Self-adaptation
- Intelligent Environmental Management System

Building Operations & Maintenance Management

- Operational Cost Optimization
- Asset Value Enhancement
- User Experience Improvement
- Business Continuity Assurance
- Safety Risk Management
- Energy-Efficient Operations

Building Equipment Management

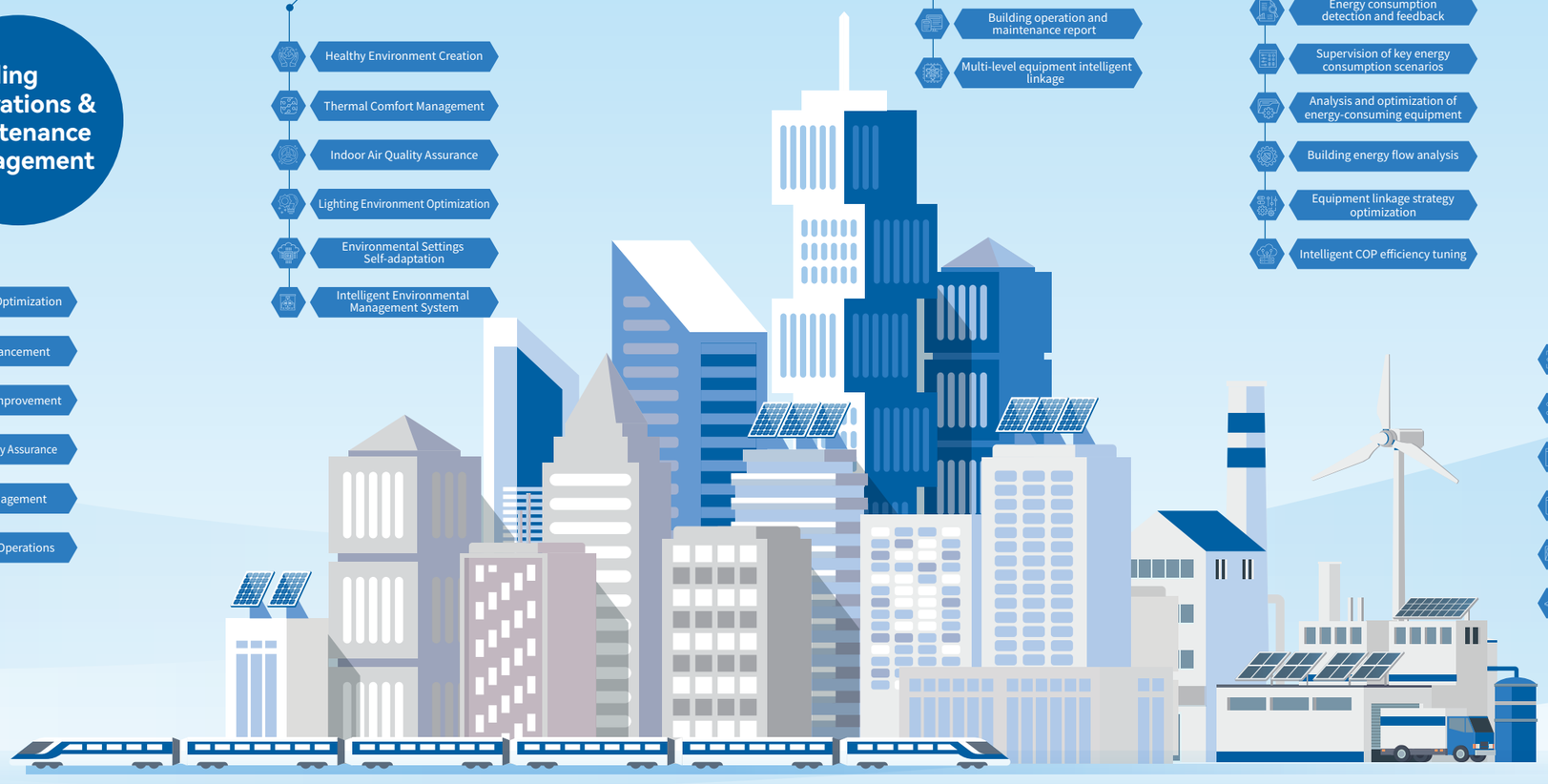
- Equipment real-time monitoring
- HVAC diagnostic analysis
- Multi-system intelligent linkage
- AI operation and maintenance assistance
- Building operation and maintenance report
- Multi-level equipment intelligent linkage

Building Energy Consumption Management

- Energy consumption detection and feedback
- Supervision of key energy consumption scenarios
- Analysis and optimization of energy-consuming equipment
- Building energy flow analysis
- Equipment linkage strategy optimization
- Intelligent COP efficiency tuning

Building Carbon Asset Management

- Building carbon emissions monitoring
- Regional carbon factor management
- Building carbon emissions inventory
- Carbon flow analysis
- Carbon emission reductin management
- Multi-system carbon report generation



Smart Space Solution Provider

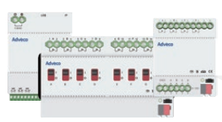
LUBANE Architectural Space Intelligent Efficiency System

Lubane Digital Platform for Architectural Space

LUBANA Architectural Space Computing System

AI Edge Server deepseek

AI Inference Server deepseek



Light Controller KNX

Edge Controller BACnet Modbus

Smart All-in-One Machine

LUBANX Intelligent Building Space Control System

Intelligent Building Management Platform XPlatform

The system is pre-installed in the AI intelligent edge server, offering two options: industrial computers or servers, to meet the demands of different scenarios.

Advantages & Highlights

- AI Large Model Knowledge Engine
- AI Automatic Binding Function
- Open North-south Data Access and Flexible Third-party Access.
- Over 30,000-point Access Capability And Over 2 Years of Data Storage.
- Domestic System & Database, Fully Self-developed from End to End, Comprehensively Ensuring Security.

Basic Functions

- Multi-system Integration
- Support System-level Programming
- Support Graphical Configuration
- Lightweight Energy and Carbon Management
- Support System-level Supervision
- Alarm, Trend, Schedule

Smart Space Software Studio

Visual Configuration Platform XView

- Provide a Rich and Professional Image Library
- Provide Multi-level Physical Model Visualization
- Provide Highly Available Configuration Templates
- Tagging System, Enabling Rapid Configuration of Points

No-code Programming Builder XControl

- Built-in Professional Program Libraries for Various Industries
- Support Online and Offline Simulation
- Programming Support for the Access of Third-party Devices
- Support for the Extension and Secondary Development of Custom Modules
- Support Multi-platform Deployment Such as Xnc, Pc, and Cloud

PRODUCT PORTFOLIO

BCK-CGWB Series IP Gateway

Product Overview

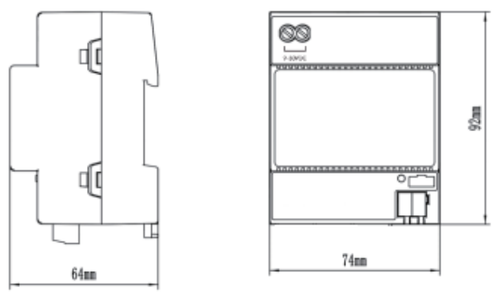
It has routing capabilities and can be used as a fast trunk line to forward messages between different branch lines through a local area network (IP). The device generates control signals. It can also be used as a programming interface to connect a PC to the KNX bus (for example, using the appropriate ETS for ETS programming). IP addresses can be dynamically assigned via a DHCP server or manually configured (ETS parameters). The device operates in accordance with the KNXnet/IP specification using Core, devicemanagement, tunneling, and routing functions.

The KNX/IP router can bidirectionally forward message control signals and is equipped with a KNXnet/IP protocol interface. It can connect a PC to the KNX bus for message monitoring or product application download using ETS software, and can also be used in accordance with the KNXnet/IP specification to interface with third-party IP devices, such as upper-level machine software.

Technical Specifications

Working Voltage	Auxiliary Power Supply (9 – 30VDC)
Output Voltage	30VDC
Working Current	≤500mA
KNX Terminal Voltage	30VDC
KNX Terminal Current	Less Than 10 mA
Port	KNX、TCP/IP
Working Temperature	-5℃~+45℃
Working Humidity	5%~95%RH
Product Dimensions (H*W*D)	92x72x64mm

Dimensions (mm)



BCK-CGWB Series HVAC Gateway

Product Overview

It is designed to interface with the mainstream brands of central air conditioning systems in the market, enabling control over the on/off status, mode, and temperature of the air conditioning. The module can control parameters such as temperature and wind speed, and also provide signal output for current room temperature and fault codes. It supports the standard KNX protocol interface and can be used for connection with KNX protocol temperature control panels. A single gateway can support the control of up to 32 indoor units with 1 outdoor unit. The module supports web-based background debugging and can flexibly modify the KNX address segment of the air conditioner.

Note: It requires an external 12V power supply.

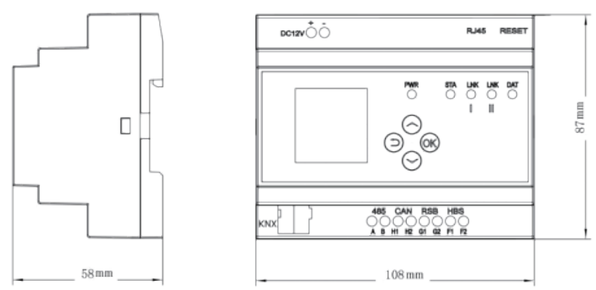
Function Table

Product	Functional Points						Interface				Function Support		
Classification	Switch	Pattern	Temperature	Wind Speed	Current Room Temperature	Fault Code	RS485	KNX	RJ45	UART	Control the Number of Indoor Units	Address Settings	Cross-System
Daikin (MIN)	●	●	●	●	●	●	●				32	Dial Code / Programming	●
Hitachi (MIN)	●	●	●	●	●	●	●				32	Dial Code / Programming	●
Toshiba (MIN)	●	●	●	●	●	●	●				32	Dial Code / Programming	●
Mitsubishi Electric (MIN)	●	●	●	●	●	●	●				32	Dial Code / Programming	×
Hisense (MIN)	●	●	●	●	●	●	●				32	Dial Code / Programming	●
York (MIN)	●	●	●	●	●	●	●				32	Dial Code / Programming	●
Gree (MIN)	●	●	●	●	●	●	●				32	Dial Code / Programming	×
Daikin	●	●	●	●	●	●	●	●	●	●	32	Programming	●
Hitach	●	●	●	●	●	●	●	●	●	●	32	Programming	●
Toshiba	●	●	●	●	●	●	●	●	●	●	32	Programming	●
Mitsubishi Electric	●	●	●	●	●	●	●	●	●	●	32	Programming	×
Hisens	●	●	●	●	●	●	●	●	●	●	32	Programming	●
York	●	●	●	●	●	●	●	●	●	●	32	Programming	●
Gree	●	●	●	●	●	●	●	●	●	●	32	Programming	×

Technical Specifications

Working Voltage at the KNX Terminal	30VDC
Working Current at the KNX Terminal	≤10mA
Auxiliary Power Supply Working Voltage	12VDC
Auxiliary Power Supply Operating Current	≤90mA
Installation Method	Standard DIN Rail Type
Product Dimensions (H*W*D)	87X108X58mm
Operating Temperature	-5℃~+45℃
Operating Humidity	30~90%
Installation Modulus	6P

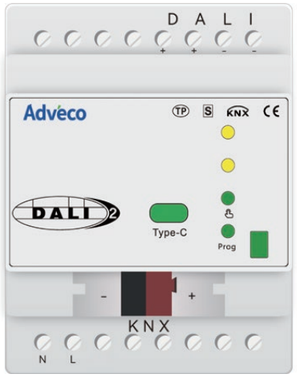
Dimensions (mm)



BCK-CGWB Series DALI Gateway

Product Overview

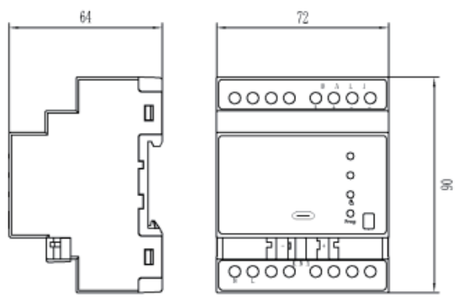
The KNX & DALI gateway serves as an interface between the KNX system and the DALI system, enabling communication through this network.
The gateway can convert the messages from the KNX bus into information recognizable by DALI devices, which includes the device address and commands of DALI, and then send it to the DALI network to control the DALI devices, thereby enabling functions such as switching on/off, dimming, and scene setting for various LED lights with DALI drivers. Meanwhile, the DALI gateway can query the status of DALI devices, detect faults, and convert the status and fault information into KNX messages to feed back to the KNX bus. Each channel of the DALI gateway can connect up to 64 DALI devices, and each DALI device can be directly switched on/off, dimmed or controlled in terms of brightness and color temperature through the use of one KNX communication object. The allocation of DALI device addresses can be done either manually or automatically. Additionally, we provide a dedicated debugging tool software for the DALI gateway to facilitate the setting and querying of parameters and addresses of DALI devices.



Technical Specifications

Working Voltage at the KNX Terminal	30VDC
Working Current at the KNX End	≤10mA
Auxiliary Working Voltage	220VAC
Dali Bus Voltage	16~18V
Suggested Cross-sectional Area of Dali Line	1.5mm²
Support for Dali Devices	≤64
Working Temperature	-5℃~+45℃
Working Humidity	5%~95%RH
Installation Method	Standard DIN Rail Installation
Product Dimensions (H*W*D)	90x72x64mm
Installation Modulus	4P

Dimensions (mm)



BCK-CTRB Series Main Module

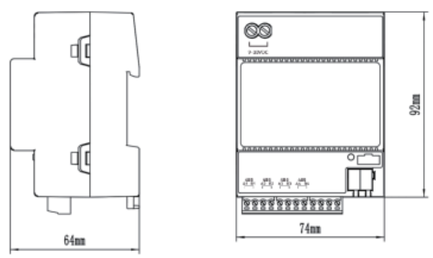
Product Overview

It can realize remote control of KNX system devices; support connection with online voice devices. It supports background scene, logic and timing function editing.The host supports simultaneous access by multiple mobile terminal devices, featuring a complete KNX protocol and a complete IP remote control protocol. It can also communicate and interface with third-party protocol systems such as TCP/IP, 232, and 485. It enables remote control and management of intelligent systems as well as integrated control of HVAC and audio-visual systems.

Technical Specifications

Electrical Functions and Specifications	
Electrical Specifications	
Power Supply Voltage	9-30VDC
Working Current	≤500mA
Auxiliary Power Supply Working Voltage	24VDC
Auxiliary Power Supply Operating Current	100mA
Port	KNX、TCP/IP、485、232
Installation Method	Standard DIN Rail Installation
Overall Dimensions (H*W*D)	92x74x64mm
Conventional Specifications	
Module Width (P)	4
Number of Protocol Ports	4
Temperature And Humidity Range	
Temperature Range (Operation)	-5℃~+45℃
Humidity	5%~95%RH
Function Table	
Remote Control Via APP	
Lighting	■
Curtain	■
Air Conditioner	■
Floor Heating	■
Fresh Air	■
Music	■
Scene	■
Remote Control	■
Surveillance	■
Security and Protection	■
Display Board	■
Online Voice Connection	
Tmall Genie	■
Ruoqi	■
Protocol Interface Integration	
232 Serial Port Device	■
485 Serial Port Device	■
Scs System Integration	■
Host Wbe Editing Function	
Scene Editing	■
Logical Editing	■
Scheduled Editing	■
Counting Function	■
Delay Function	■
Custom Serial Port	■
Vrv Air Conditioning Connection	■
H5/App Customization	–

Dimensions (mm)



BCK-CUIB Series Input/Output Module

Product Overview

8-channel dry contact module: Supports dry contact signal input. KNX software functions: Switch, dimming or blind control, with 1-bit and 1-byte control signal pulses, distinction between long and short operations, scene editingfunction, and differentiation of rising and falling edge triggers.
6-channel universal input/output module: Supports dry contact signal input and three-channel relay signal output.
KNX software functions: Switch, dimming or blind control, 1-bit and 1-byte control signal pulses, distinction between long and short operations, scene editing function,and differentiation of rising and falling edge triggers.
4-channel LED indicator light input module: Supports dry contact signal input and feedback signal output.

KNX software functions: Switch, dimming or blind control, with 1-bit and 1-byte control signal pulses, distinction between long and short operations, scene editing function, and differentiation of rising and falling edge triggers.

Technical Specifications

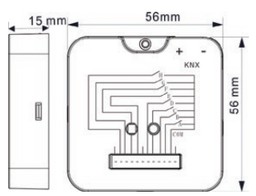
Electrical Functions and Specifications	BCK-CUIB-08E0	BCK-CUIB-06E0	BCK-CUIB-04E0
Electrical Specifications			
Contact Capacity (A)	–	10A	–
Mechanical Lifespan	–	>10^5	–
Working Voltage	30VDC Bus Power Acquisition	–	30VDC
Knx Terminal Voltage	–	30VDC Bus Power Acquisition	–
Knx Terminal Current	< 10mA	< 10mA	< 10mA
Allowable Cable Length	≤10 Meters	–	≤10 Meters
Relay Contact Current	–	10A	–
Electrical Specifications			
Contact Capacity (A)	–	10A	–
Mechanical Life	–	>10^5	–
Load Type			
Incandescent Lamp Load 230VAC	–	2300W	–
Halogen Lamp Load 230 VAC	–	2300W	–
Led Lamp Load 230VAC	–	200W	–
230 VAC Inductive Load	–	1200VA	–
Capacitive Load 230VAC	–	1500VA	–
Electric Motor 230VAC	–	1000VA	–

Electrical Functions and Specifications	BCK-CUIB-08E0	BCK-CUIB-06E0	BCK-CUIB-04E0
Conventional Specifications			
Input Port	8	6	4
LED Outpu	–	–	4
Relay Output	–	3	–
Installation Method	Concealed Installation	Concealed Installation	Concealed Installation
Module Dimensions (H*W*D)	56x56x15mm	55x52x24mm	56x56x15mm
Environmental Specifications			
Temperature Range (Operation)	-5℃~+45℃	-5℃~+45℃	-5℃~+45℃
Humidity	5%~95%RH	5%~95%RH	5%~95%RH

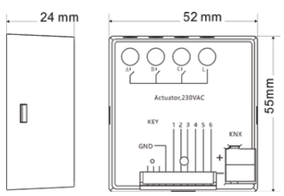
1)The input voltage of the rail-mounted input interface must not exceed the maximum peak voltage.
2)The concealed input interface is a dry contact input and no voltage signal should be added.
3)The maximum length of the input cable shall not exceed 10 meters.
The actual wiring length should be determined based on a comprehensive consideration of the cable material and thickness.

Function Table	BCK-CUIB-08E0	BCK-CUIB-06E0	BCK-CUIB-04E0
Switch Sensor			
Edge-triggered (Rising Edge, Falling Edge)	■	■	■
Trigger by Length Distinction	■	■	■
Send the Value "1"	■	■	■
Send the Value "0"	■	■	■
Send the Values "1" and "0" Alternately in a Loop	■	■	■
Switch Enable	■	■	■
Dimming Function			
Switch, Dimmer	■	■	■
Send "Open"	■	■	■
Send "Off"	■	■	■
Send "On" and "Off" Alternately in a Loop.	■	■	■
Brighten Up	■	■	■
Dim Down	■	■	■
Cycle "Brighten" and "Dim"	■	■	■
Scene Function			
Two Independent Scenes Can Be Stored and Edited	■	■	■
1-byte Scene Transmission	■	■	■
64 Scene Numbers to Choose From	■	■	■

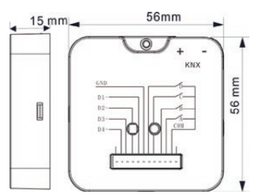
Dimensions (mm)



8-channel Dry Contact Module



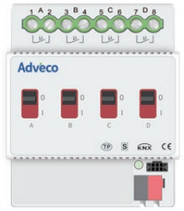
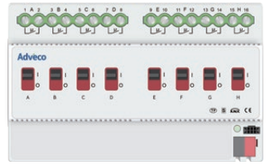
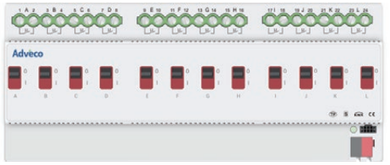
6-channel Universal Input/output Module



4-channel Led Indicator Light Input Module

BCK-CRLB Series Switch Module



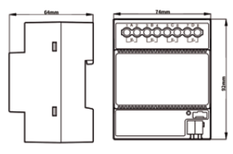





Product Overview

The KNX switch control module, when combined with smart panels,various timers, and upper-level software, provides modern buildings with an intelligent

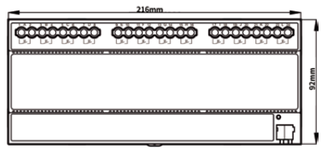
The switch control module is widely used in intelligent lighting control systems of various building types,such as airports, railway stations, schools, hospitals, office buildings, and high-end residences.comfortable, and energy-efficient living environment. The switch control module comes in multiple models suitable for different application scenarios. The 10A model is mainly used in smart home control, while the 20A model is primarily applied in lighting, HVAC, and pump control in building automation. With a variety of loop quantity combinations, the most cost-effective solutions can be tailored.

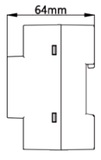
Dimensions (mm)



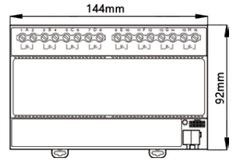
BCK-CRLB-0410

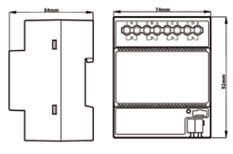
BCK-CRLB-1210





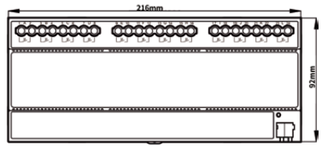
BCK-CRLB-0810

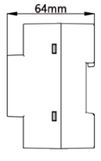




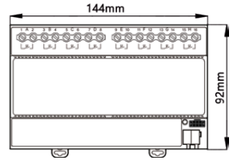
BCK-CRLB-0420

BCK-CRLB-1220





BCK-CRLB-0820



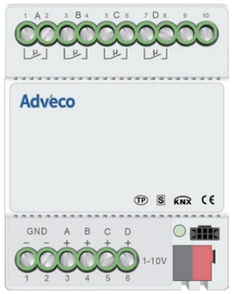
Technical Specifications

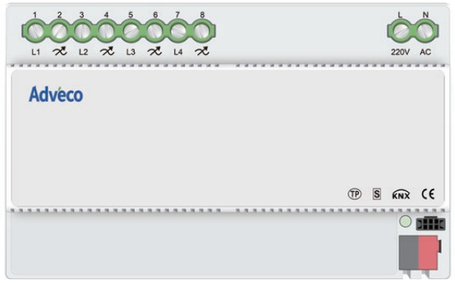
Electrical Functions and Specifications	BCK-CRLB-0410 BCK-CRLB-0810 BCK-CRLB-1210	BCK-CRLB-0420 BCK-CRLB-0820 BCK-CRLB-1220
Electrical Specifications		
Rated Current (A)	10A	20A
Rated Voltage (V)	220VAC(50/60Hz)	220VAC(50/60Hz)
Mechanical Life	>10^6	>10^6
Load type		
Incandescent Lamp Load 230 VAC	2300W	4600W
Halogen Lamp Load 230 VAC	2300W	4600W
LED Lamp Load 230VAC	200W	400W
230VAC Inductive Load	1200VA	2400VA
Capacitive Load 230VAC	1500VA	3000VA
Electric Motor 230VAC	1000VA	2000VA
Conventional Specifications		
Installation Method	Standard Rail Installation	Standard Rail Installation
Number of Output Circuits	4/8/12	4/8/12
Module Width (18mm/P)	4/8/12	4/8/12
Environmental Specifications		
Temperature Range (Operation)	-5℃~+45℃	-5℃~+45℃
Humidity	5%~95%RH	5%~95%RH

Function Table		
Switch Function		
On/off	■	■
Function of the Corridor	■	■
Flashing Function	■	■
Delayed Switch Function	■	■
Default Value Function	■	■
Scene Function		
Six Independent Scenes	■	■
1-byte Scene Trigger	■	■
Threshold Function		
Upper and Lower Limit Threshold Function	■	■
1-byte Value	■	■
2-byte Value	■	■
Threshold Judgment for On/off	■	■

1)For multi-element lamps or other types, the number of load devices must be determined by the peak inrush current of the electronic ballast.
2)The maximum rated current value must not be exceeded.

BCK-PLDF Series Dimming Module





Product Overview

It is used for switching or dimming the lighting circuits of various lamps or drivers. Each circuit can be simultaneously called by 6 8-bit scenes, and 64 scene numbers are available for selection.
The KNX software functions include: switching, relative value dimming, absolute value dimming, dimming speed setting, memory function, on/off delay, scenes (up to 6 scenes can be edited and stored), and status feedback.

Technical Specifications

Electrical Functions and Specifications	4-Channel 1-10V Dimming Module BCK-PLDF-0416	4-channel Universal Dimming Module BCK-PLDF-4TR2
Electrical Specifications		
Rated Current	16A	2A
Rated Voltage	230VAC	230VAC
Incandescent Lamp with a Load of 230VAC	2300W	400VA
Halogen Lamp with a Load of 230VAC	2300W	400VA
The Led Lamp Has a Load of 230VA	200W	40VA
Support for Minimum Load Power	-	20W
Working Temperature	-5℃~+45℃	-5℃~+45℃
Work Humidity	5%~95%RH	5%~95%RH
Installation Method	35mm DIN Rail Installation	35mm DIN Rail Installation
Conventional Specifications		
Installation Method	Standard Rail Installation	Standard Rail Installation
Module Width	4	8
Number of Output Circuits	4	4

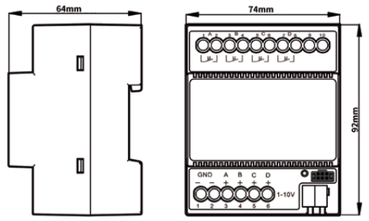
Electrical Functions and Specifications	4-channel 1-10V Dimming Module BCK-PLDF-0416	4-channel Universal Dimming Module BCK-PLDF-4TR2
Load Type		
230v Incandescent Lamp	–	■
230v Halogen Lamp	–	■
Led Lamp (Thyristor Leading-edge Phase Control Dimming)	–	■
Led Lamp (0-10v Input Dimming)	■	–
Dimming Box (0-10v Input Dimming)	■	–

1)=For multi-element lamps or other types, the number of load devices must be determined by the peak inrush current of the electronic ballast.
2)=The maximum rated current value must not be exceeded.
3)=The lamps should be selected and used in accordance with the type of load
4)=All the above power parameters are based on resistive loads.

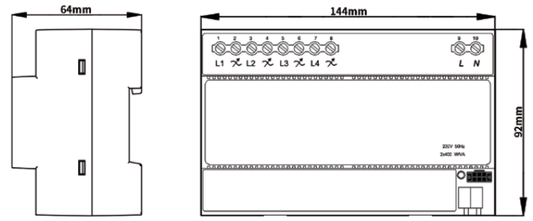
Function Table	4-channel 1-10V Dimming Module BCK-PLDF-0416	4-channel Universal Dimming Module BCK-PLDF-4TR2
Switch		
Brightness Value at Startup	■	■
The Dimming Speed Setting of The Switch	■	■
Dimming		
Absolute Value Dimming	■	■
Absolute Value Dimming Speed Setting	■	■
Relative Value Dimming	■	■
Relative Value Dimming Speed Setting	■	■
Memory Function for Initial Dimming Value	■	■
Dimming Upper And Lower Limit Settings	■	■
Feedback		
Open And Closed Feedback	■	■
Dimming Brightness Value Feedback	■	■
Scene Function		
Six Independent Scenes	■	■
1-byte Scene Trigger	■	■

1)For multi-element lamps or other types, the number of load devices must be determined by the peak inrush current of the electronic ballast.
2)The maximum rated current value must not be exceeded.

Dimensions (mm)



4-channel 1-10V dimming module

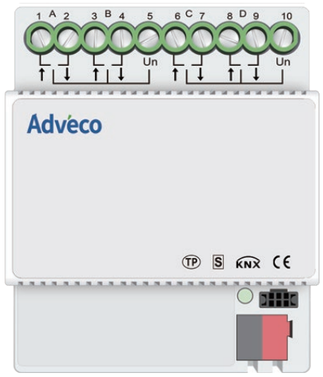


4-channel universal dimming module

BCK-PCUF Series 4-Channel Curtain Module

Product Overview

Blind or roller shutter drive units for 230V AC motors are controlled independently of each other. Blinds The function of the loop can be configured arbitrarily in the software. Module functions: selection of blind types, setting of operation time, setting of pause time,setting of step movement time. Scene, manual/automatic operation function switching, multiple status display and feedback functions.



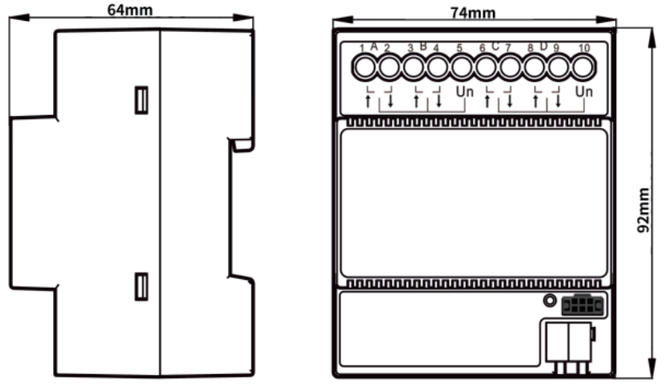
Technical Specifications

Electrical Functions and Specifications	4-Channel Curtain Module BCK-PCUF-0406
Electrical Specifications	
Rated Current (A)	6A
Rated Voltage (V)	230VAC
Mechanical Life (Times)	>10⁶
Load Type	
High-voltage Motor 230 Vac	■
Dry Contact Motor	■
485 Protocol Motor	–
Conventional Specifications	
Installation Method	Guide Rail Installation
Number of Output Circuits	4
Module Width (P)	4
Temperature And Humidity Range	
Temperature Range (Operation)	-5℃ ~+45℃
Humidity	5%-95%RH

1)For multiple motors, the peak inrush current of the motors must be used to determine the number of load devices.
2)The maximum rated current value must not be exceeded.
3)The motor should be matched and selected with the corresponding motor module according to the type of load.

Function Table	4-Channel Curtain Module BCK-PCUF-0406
Switch Control	
Curtain Open/close	■
The Curtain Stops	■
Departure Time of the Trip	■
Close The Travel Time	■
Point Movement Function	■
Itinerary Entry	■
Trip Feedback	■
Scene Control Function	
Six Independent Scenes	■
1-byte Scene Trigger	■

Dimensions (mm)

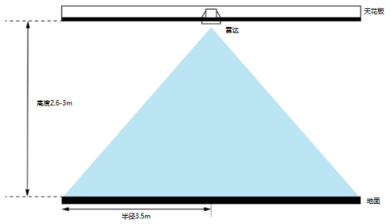


BCK-SEXF Series Presence Sensor

Product Overview

The human body presence sensor uses 24G millimeter-wave Doppler radar to detect. Human body biological motion is detected to achieve the status detection of presence or absence of people in a specific place, and it also has the function of illuminance detection.
KNX software functions: presence detection control, motion detection control, illuminance detection control, and comprehensive logic control.

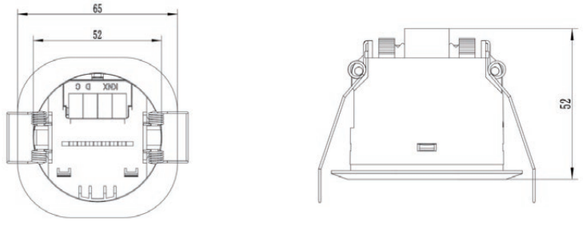
Technical Specifications



Embedded ceiling-mounted installation, with a hole diameter of ϕ 55mm. When ceiling-mounted,Due to differences in installation height, human height, body shape and posture, the radial sensing distance of this product may vary. The maximum sensing distance radius under the default configuration is 3.5 meters. This product is a wide-beam radar, so ceiling installation can achieve detection over a larger area. It is recommended that the installation height range be 2.6 to 3. 2 meters. An additional 24V auxiliary power supply is required for separate power supply.

KNX Terminal Voltage	30VDC
KNX Terminal Current	< 12mA
Auxiliary Working Voltage	24VDC
Auxiliary Working Current	< 15mA
Sensing Distance (Diameter)	< 7meters
Suggested Installation Height	2.6~3.2m
Installation Method	Ceiling-mounted Installation
Working Temperature	-5℃~+45℃
Storage Temperature	-25℃~+55℃
Transport Temperature	-25℃~+70℃
Working Humidity	< 90%RH

Dimensions (mm)

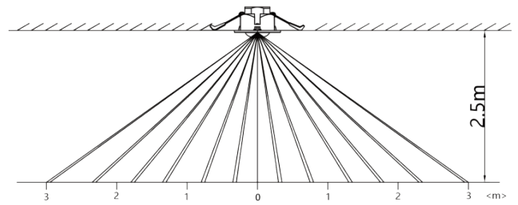


BCK-SMVF Series Infrared Motion Sensor

Product Overview

It can detect indoor movement and send control signals via KNX. It is designed for lighting control systems.
When performing motion recognition related to brightness, the device continuously detects the indoor brightness. It can make logical judgments in combination with illuminance to meet various control requirements. At the same time, when used in conjunction with dimmable lamps, constant illuminance control of the environment can be achieved through software parameter settings. It is suitable for installation on the ceiling, with the optimal installation height being 2.5 meters.
KNX software functions: mobile sensor control, illuminance sensor control, constant illuminance dimming control, and comprehensive logic control. control, and comprehensive logic control.

Technical Specifications

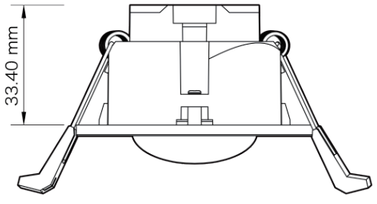


Embedded ceiling-mounted installation, with a hole diameter of ϕ 55 ⩽d ⩽ 58mm. Due to differences in installation height, human height, body shape and posture, the radial sensing distance of this product may vary. The optimal installation height is 2.5m. The detection range is a circle with a diameter of 6m (high sensitivity zone) to 8m (low sensitivity zone) centered on the device.

Vertical Exploration Range

Working Voltage at the KNX Terminal	30VDC(Bus Power Supply)
Working Current at the KNX End	≤10mA
Product Power Consumption	≤0.3W
High-sensitivity Detection Distance (Radius)	≤3m
Low-sensitivity Detection Distance (Radius)	3-4m
Suggested Installation Height	2.5-3m
Working Temperature	-5℃~+45℃
Working Humidity	5%~95%RH
Installation Method	Ceiling-mounted Installation
Overall Dimensions (H*W*D)	66x45mm

Dimensions (mm)



BCK-PTBF Series 4-Inch Smart Touchscreen

Product Overview

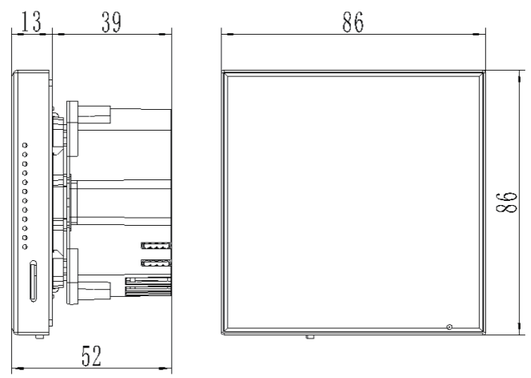
Adopting capacitive touch technology and high-contrast industrial-grade LCD display, the display controls can be flexibly combined. It can Functions include controlling light switches and dimming, curtain switches and operation, scene torage and control, air conditioning, floor heating, fresh air control, and display of environmental quality parameters.

Technical Specifications

KNX Terminal Voltage	30VDC
KNX Terminal Current	≤10mA
Auxiliary Voltage	24VDC
Auxiliary Current	< 200mA
Display Mode	IPS All-round View Screen
Screen Size	4.0Inch
Touch Type	Capacitive Touch
Resolution	480x480
Working Temperature	5℃ ~ +45℃
Working Humidity	10% ~ 90%RH
Switch Function	
Light Switch	■
The Curtain Switch is Stuck.	■
Send "Open"	■
Send "Off"	■
Send "On" and "Off" Alternately in a Loop	■
Open and Closed Feedback	■
Dimming Function	
Switch, Dimmer	■
Send "Open"	■
Send "Off"	■
Send "On" and "Off" Alternately in a Loop.	■
Brighten Up	■
Dim Down	■
Cycle "Brighten" and "Dim"	■

Function Overview	
Scene Function	
Two Independent Scenes Can Be Stored and Edited	■
1-byte Scene Transmission	■
64 Scene Numbers to Choose from	■
Room Temperature Controller	
Ambient Temperature	■
Switch	■
Set Temperature	■
Mode Settings	■
Wind Speed Setting	■
Refrigeration Valve	■
Heating Valve	■
Calibration Temperature	■
Floor Heating	
Switch	■
Set The Temperature	■
Floor Heating Valve	■
Fresh Air	
Switch	■
Mode Settings	■
PM2.5	■

Dimensions (mm)



BCK-CMWB Series KNX Curtain Motor

Product Overview

The motor is equipped with a KNX interface and supports opening, closing, stopping, travel, and reversing.

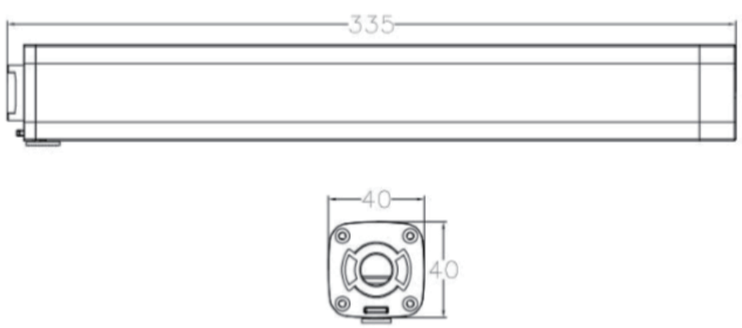
It is equipped with functions such as equal control. It features hand-crank start, gentle opening and closing, and stops when encountering resistance.

KNX functions: Open and close control, stop control, travel control, travel feedback, reversing setting, etc.

Technical Specifications

KNX Terminal Voltage	30VDC
KNX Terminal Current	≤10mA
Working Voltage	AC100~240V，50/60Hz
Output Torque	1.2NM
No-Load Speed	80 R/min, Fast; Linear Speed 12 Cm/s
Motor Noise	35db（Measured 100 Cm from The Motor）
Rated Power	22W
Motor Load	50Kg
One-Way Continuous Operation Time	About 12 Minutes
Working Temperature	-20℃to+55℃
Working Humidity	5%-95%RH
Overall Dimensions (H*W*D)	40x40x335mm

Dimensions (mm)



BCK-CMWB Series KNX Roller Motor

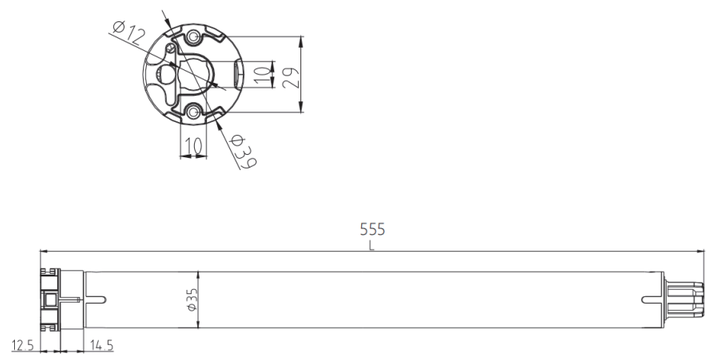
Product Overview

The motor is equipped with a KNX interface and supports opening, closing, stopping, travel, and point operations. It features control functions such as movement and direction change. It has the characteristics of low noise operation and electronic limit.
KNX functions: Open and close control, stop control, travel control, travel feedback, stepless dimming, upper limit boundary feedback, reversing setting, etc.

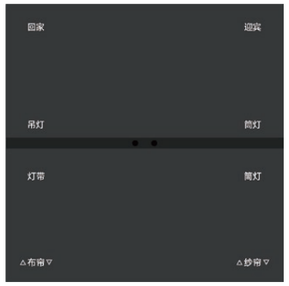
Technical Specifications

KNX Terminal Voltage	30VDC
KNX Terminal Current	≤10mA
Working Voltage	230V、50Hz
Output Torque	8NM
No-Load Speed of the Motor	19 Revolutions Per Minute (R/min), Fast
Working Temperature	-20℃to+55℃
Noise	38db（A）（100 Cm from The Motor）,Ambient Noise 30db（A）
Rated Power	121W
Rated Current	0.53A
Load	16Kg
Overall Dimensions	ϕ39xϕ39x555mm
One-Way Continuous Operation Time	About Four Minutes

Dimensions (mm)



BCK-PTBF Series Smart Panel



Product Overview

The smart panel is a control panel for the KNX system, available in two specifications: four-key and eight-key. Each key can be set with different functions according to various needs, such as opening and closing, dimming.

Functions such as curtain control, numerical transmission and scene control. Each key has an LED status indicator light, which can be used as a status feedback or operation indicator light for the controlled device. The panel is equipped with near-field sensing function, automatically lighting up the key backlight when a human body is detected within 0.5 meters. The panel is designed for embedded installation and can be installed in a standard 86-type wall box. It requires a 24V auxiliary power supply.

Order Information

Product Model	Product Description
BCK-PTBF-PK4SL	4 Keys, Pearl Silver, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK4GO	4 Keys, Pearl Gold, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK4BL	4 Keys, Pearl Black, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK4WH	4 Keys, Pearl White, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK4GY	4 Keys, Pearl Grey, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK8SL	8 Keys, Pearl Silver, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK8GO	8 Keys, Pearl Gold, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK8BL	8 Keys, Pearl Black, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK8WH	8 Keys, Pearl White, Requires 24v Auxiliary Power Supply
BCK-PTBF-PK8GY	8 Keys, Pearl Grey, Requires 24v Auxiliary Power Supply

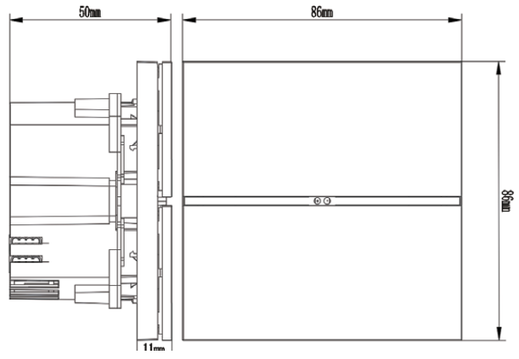
Technical Specifications

Working Voltage at the KNX Terminal	30VDC
Working Current at the KNX Terminal	≤10mA
Auxiliary Working Voltage	24VDC
Auxiliary Working Current	≤70mA
Working Temperature	-5℃~+45℃
Working Humidity	5%~95%RH
Product Dimensions (H*W*D)	86x86x50mm

Function Overview	
Switch Function	
Edge-triggered (Rising Edge, Falling Edge)	■
Trigger by Length Distinction	■
Send "Open"	■
Send "Off"	■
Send "On" And "Off" Alternately in a Loop	■
Open and Closed Feedback	■

Function Overview	
Value Sending Function	
Trigger by Length Distinction	■
Single-value Occurrence Pattern	■
Double-valued Cyclic Transmission	■
Dimming Function	
Switch, Dimmer	■
Send "Open"	■
Send "Off"	■
Send "On" and "Off" Alternately in a Loop	■
Brighten Up	■
Dim Down	■
Cycle "Brighten" and "Dim"	■
Scene Function	
Six Independent Scene Modules	■
8 Scene Mode Editing / Scene Module	■
8 Output Function Groups / Scene Modules	■
Support for Switch, Dimming, Curtain, Temperature and Scene Control	■
8 Output Function Groups / Scene Modules	■
64 Scene Numbers to Choose from Freely	■

Dimensions (mm)



BCK-PTBF Series Intelligent Thermostat

Product Overview

The panel is equipped with an ultra-high-definition color LCD screen and integrates air conditioning and floor heating system.

New three-in-one ventilation and temperature control solution. Through software parameter settings, the air conditioning, floor heating and ventilation functions can be turned on and off. It comes with temperature control logic that can be used to connect with various HVAC equipment. The buttons have functions such as switch, dimming, curtain and scene, and support long and short press. It supports scene editing and storage. The panel has 4-channel relay output function, which can realize 4-channel switch control or 1-channel fan coil control. It requires 24V auxiliary power supply.

Technical Specifications

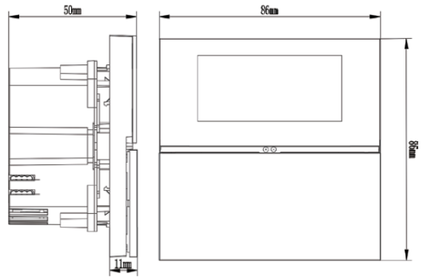
Working Voltage at the KNX Terminal	30VDC
Working Current at the KNX Terminal	≤10mA
Auxiliary Working Voltage	24VDC
Auxiliary Working Current	≤70mA
Working Temperature	-5℃~+45℃
Working Humidity	5%~95%RH
Overall Dimensions (H*W*D)	86x86x50mm
Function Overview	
Switch Function	
Edge-triggered (Rising Edge, Falling Edge)	■
Trigger by Length Distinction	■
Send "Open"	■
Send "Off"	■
Send "On" and "Off" Alternately in a Loop	■
Open and Closed Feedback	■
Value Sending Function	
Trigger by Length Distinction	■
Single-valued Occurrence Pattern	■
Double-valued Cyclic Transmission	■
Dimming Function	
Switch, Dimmer	■
Send "Open"	■
Send "Off"	■
Send "On" and "Off" Alternately in a Loop	■
Brighten Up	■
Dim Down	■
Cycle "Brighten" and "Dim"	■

Function Overview	
Scene Function	
Six Independent Scene Modules	■
8 Scene Mode Editing / Scene Module	■
8 Output Function Groups / Scene Modules	■
Support for Switch, Dimming, Curtain, Temperature and Scene Control	■
8 Output Function Groups / Scene Modules	■
64 Scene Numbers to Choose from Freely	■
Air Conditioner	
Ambient Temperature	■
Switch	■
Set Temperature	■
Mode Settings	■
Wind Speed Setting	■
Refrigeration Valve	■
Heating Valve	■
Calibration Temperature	■
Floor Heating	
Switch	■
Set Temperature	■
Floor Heating Valve	■
Fresh Air	
Switch	■
Mode Settings	■
PM2.5	■
Relay Output	
Switch Control	■
Switch Feedback	■

Order Information

Product Model	Product Description
BCK-PTBF-PK1SL	4 Keys, with 4 Channels of 10A Relay Output, Pearl Silver
BCK-PTBF-PK1GO	4 Keys, with 4 Channels of 10A Relay Output, Pearl Gold
BCK-PTBF-PK1GR	4 Keys, with 4 Channels of 10A Relay Output, Pearl Grey
BCK-PTBF-PK1BL	4 Keys, with 4 Channels of 10A Relay Output, Pearl Black
BCK-PTBF-PK1WH	4 Keys, with 4 Channels of 10A Relay Output, Pearl White

Dimensions (mm)



BCK-CLCB Series Line Coupler

Product Overview

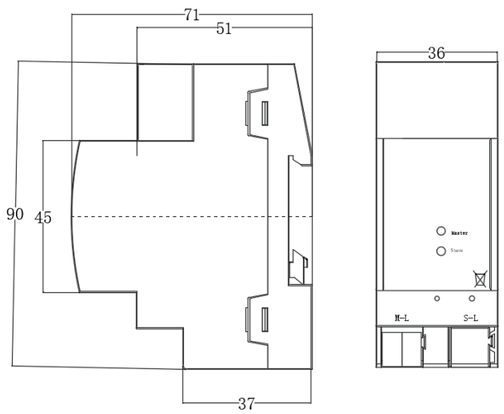
It can be used as a communication connection and current isolation (coupler) between KNX topology lines, and it has an address filtering function.

It can also be used as a line expansion repeater for a single branch line.

Technical Specifications

Working Voltage at the KNX Terminal	30VDC
Working Current at the KNX Terminal	≤10mA
Working Temperature	-5℃~+45℃
Working Humidity	5%~95%RH

Dimensions (mm)



BCK-ECAF Series KNX Cable

Product Overview

A dedicated bus for communication between KNX devices. This bus cable can be installed and laid in both dry and damp spaces.

The cable is installed in the space, wire trough or pipe. It is a shielded cable in accordance with DIN VDE 0815, with 0.8mm solid bare copper wire conductors. The cable size is 2X2X0.8mm. Four solid conductors are twisted into one core group, with core colors of red/black and white/yellow.

Technical Specifications

Conductor Resistance	Maximum 73.2 Ω /km
Insulation Resistance	Minimum 100 MΩ · km
Attenuation	The Normal Value Is 3.5 dB/km at 10 kHz And 8 dB/km at 100 kHz.
Working Voltage (Not for Use in Power Systems)	Peak Value，300v
Test Voltage	Between Conductors, 1000v; Conductor to Shield, 1000v
Conductor	0.8mm Solid Bare Copper Wire (Oxygen-free Copper)
Insulation	Environmentally Friendly Special Polyvinyl Chloride Material, Core Wire Colors: Red, Black, White, Yellow
Stranding	4-core Insulated Wire Star-twisted, Wrapped with Moisture-proof Plastic Tape
Block; Shield; Screen	Drain Wire, 0.4mm Bare Copper Wire, 100% Shielded with Special Thick Aluminum Foil
Sheath	Environmentally Friendly Special Polyvinyl Chloride Material, The Outer Diameter of the Finished Product D6.5 ± 0.2 Shall Not Exceed 6.7 mm.
Sheath Color	Light Green

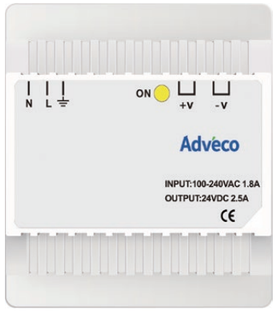
Dimensions (mm)

Packaging: 500 meters per roll (standard), 2×2×0.8

BCK-CPSF Series 24V Power Supply

Product Overview

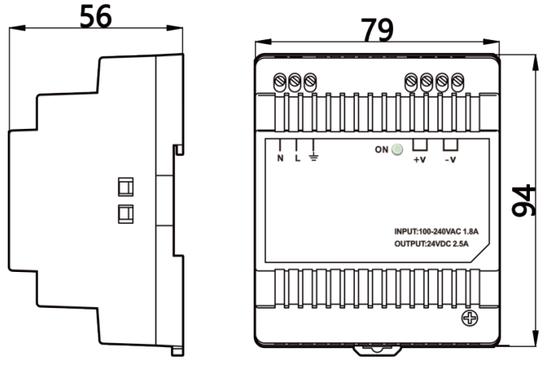
It is used to provide additional power supply for the main control module, intelligent panel and other devices. The module is equipped with a grounding terminal, which can effectively protect and solve the problems of leakage and surface electrification of system equipment.



Technical Specifications

Input Voltage	220 VAC
Output Voltage	24 VDC
Maximum Output Current	2.5 A
Working Temperature	-5℃~45℃
Working Humidity	5%~95%RH
Installation Method	DIN Rail Installation
Installation Modulus	4P

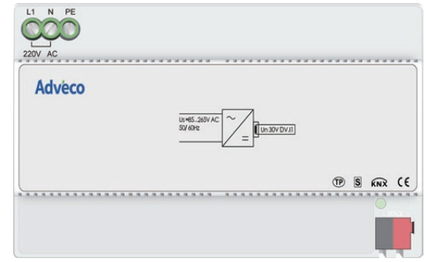
Dimensions (mm)



BCK-CPSB Series 640mA Power Supply

Product Overview

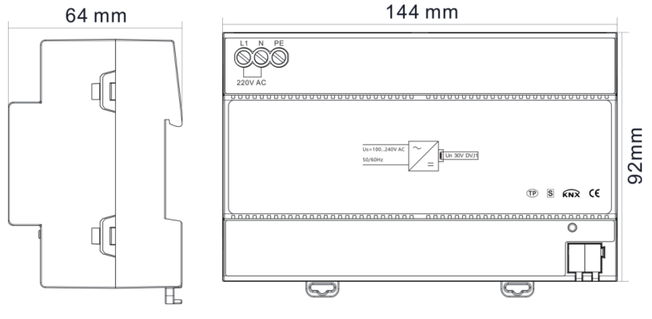
The 640mA power supply module is a device that provides system power for KNX systems. It connects to the bus through KNX terminals. It has a built-in reset function that can reset the bus system. During this period, the bus is powered off, and the components connected to the bus will be in a power-off state.



Technical Specifications

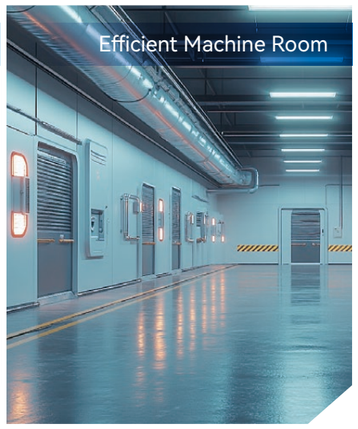
Input Voltage	220VAC
Output Voltage	30VDC
Output Current	≤ 640 mA
Working Temperature	-5℃~+45℃
Working Humidity	5%~95%RH
Installation Method	DIN Rail Installation
Overall Dimensions (H*W*D)	92x144x64mm
Installation Modulus	8P

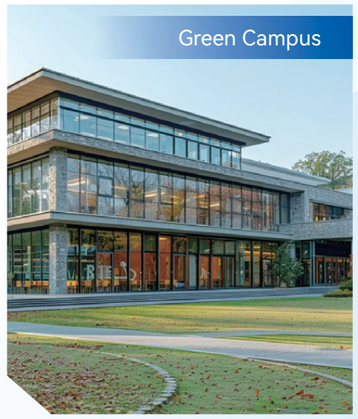
Dimensions (mm)



VERTICAL MARKET

Adveco focuses on key vertical sectors, including parks, high-efficiency data centers, factories, hotels, green campuses, commercial buildings, laboratories, data centers, hospitals, and transportation. It offers specialized and customized intelligent solutions tailored to the unique needs of different scenarios, driving energy efficiency improvements, operation and maintenance optimization, and system integration through technological innovation. With industry-leading technical strength and in-depth insights, it empowers customers to achieve intelligent upgrades and sustainable development, working together to create new benchmarks for efficiency, greenness, and intelligence in the industry.





Company Mission

Empowering Spaces with Technology,Reimagining Smart Buildings as Living Organisms

Company Vision

To Be the Global Leader in Intelligent Building Ecosystems

Values

Customer Obsession. Expertise with Integrity
Collaborative Success. Bold Innovation

Smart Space Solution Provider