

**LETOUR**

# KNX PRODUCTS SOLUTION ODM/OEM

[www.aiknxcn.com](http://www.aiknxcn.com)



KNX国际制造会员



KNX国际认证工程师  
培训中心



KNX中国制造  
会员



KNX中国AIOT  
创新中心



Efficient, high-quality, cost-effective

### Beile (Xiamen) Intelligent Technology Co.,Ltd.

LETOUR, Engaged in KNX system products , providing ODM and OEM services, LETOUR is headquartered in Xiamen, technology centers and operation centers covers in Guangzhou, Wuhan, and Shanghai. The company has strong technical strength and is a member of KNX International Manufacturing, KNX International Certified Engineer Training Center, a core member of Tuya Ecosystem, and a strategic partner of IFLYTEK , AISPEACH.

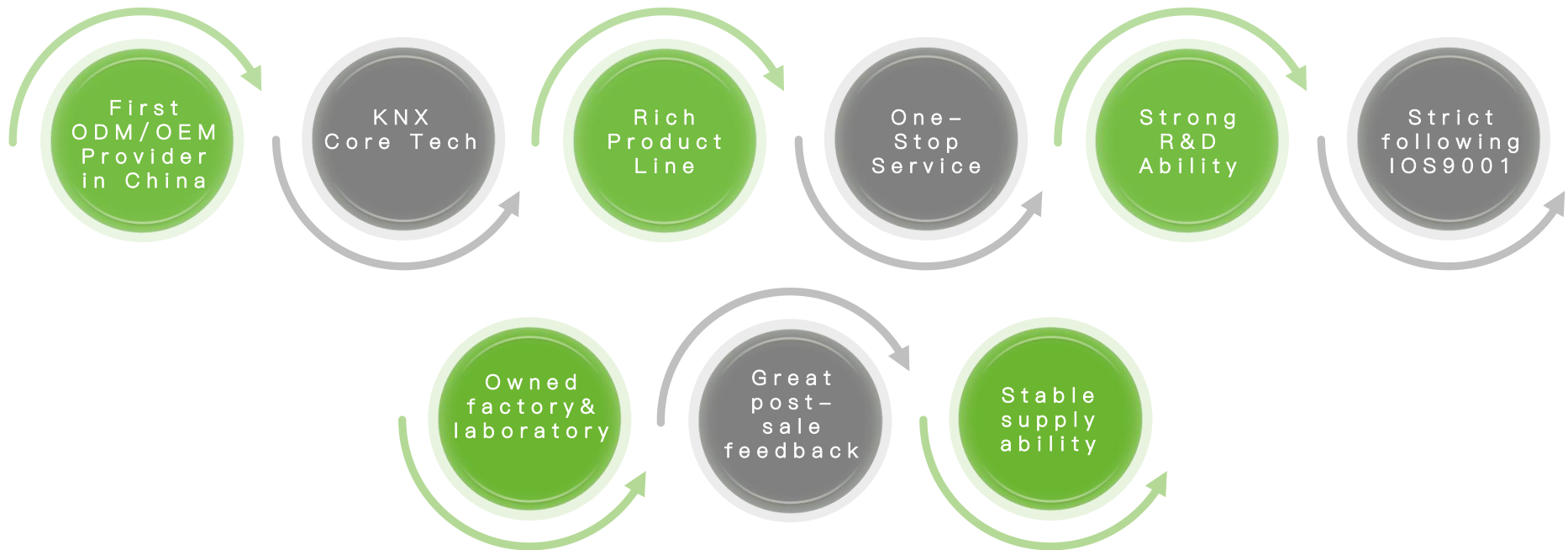
LETOUR innovates the hybrid networking technology based on the KNX bus technology and wireless technology, creating the ZKPRO intelligent commercial IOT platform, which leads the smart building technology.

For distributed KNX system, KNX-AI voice intelligent control technology, and the KNX-AIOT wired-wireless convergence technology, LETOUR has maintained its leading position in the industry.

LETOUR provides a number of Fortune 500 companies and domestic listed head of the industry with KNX system products design and production services, building business with more than 50 enterprises, completing a number of real estate projects intelligent products.

LETOUR is committed to creating a High-Technological living experience, bring a better life for consumers, providing intelligent control, energy management, efficient operation, energy saving and emission reduction for commercial and residential buildings. LETOUR have always making its contributions to green low-carbon and quality living.

## Why Choose Us?



***LETOUR***

**KNX ODM / OEM Service**  
**AI Smart Switch Lighting/Smart Business**



### Mastering Core Technology Empowered by giantpower

- Independent product development with 4 KNX stacks.
- Full range of KNX product development tech
- KNX-APP Gateway, KNX&AIOT Fusion Gateway Tech.
- Online+Offline AI voice interaction controller Tech.
- UI intelligent interactive screen Tech.
- Zigbee 3.0 Product develop Tech.





Originated from European  
Created in China

- Strict implementation of KNX technical standards
- Standard KNX–certified products for true interworking
- ISO9001 certification
- ROHS acceptable
- KNX Secure Certificated (Some in progress)



## One-Stop Service fo KNX Products

With KNX wired and multi –protocol wireless products over all products, successfully serving nearly 50 companies.



Professional design services+product manufacturing.

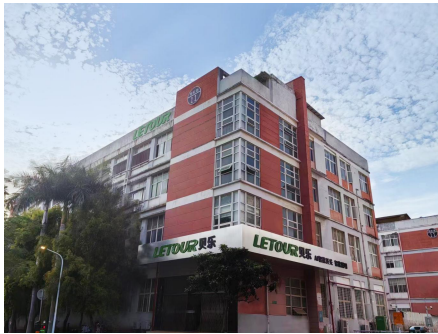
Choose **LETOUR**, Rest assured!

Production facilities covering an area of **5000**m<sup>2</sup>

own **16** Japanese high-precision mounter lines

Daily production for SMT up to **10,000,000**

Daily production for THT up to **5000000**



## Testing equipment and instruments.

◆ Panasonic NPM-W2 and JUKI, line configuration Hitachi high-precision printing machine and 10-temperaturere flow oven, ICT tester, online AOI and offline AOI inspection machine, and equipped with SPI 3D solder paste inspection machine, X-RAY tester, LCR first piece of the tester.

◆ Can make 0201, 0402, 0603, 0805, 1206 and BGA, CSP and other 0.3 pitch surface mounting of various shaped parts.



KNX  
SYSTEM  
PRODUCT

KNX  
CENTRALIZE  
DPRODUCT

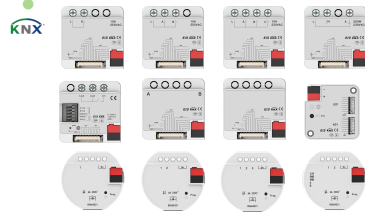
KNX  
DECENTR  
ALIZED  
PRODUCT

SMART  
SWITCH

SMART  
TOUCH  
PANEL

ZKPRO  
WIRELESS  
PRODUCT

RICH PRODUCT  
LINE





01

smart  
switch  
series

- ◆ T8 / T9
- ◆ T10 / T12
- ◆ D10N / D11
- ◆ KNX Smart Touch
- ◆ AI Voice Control Smart Switch

02

Smart  
Touch  
series

- ◆ 3" Smart Touch
- ◆ 4" AI Voice Control Smart Touch
- ◆ 4" AI Voice Control Keypad
- ◆ 5.5" Smart Touch
- ◆ 10.1" Smart Touch

03

Centralized  
Module

- ◆ Smart Module
- ◆ Smart module with current monitoring
- ◆ Dimming Module/Curtain Module
- ◆ power supply/gateway
- ◆ 485/232-KNXmodule

04

Distributed  
Module

- ◆ Switch Module
- ◆ Dimming module/Curtain module
- ◆ Universal Interface



## T8 Series

### Features:

- Color options (gold, grey), finish and material can be customized;
- switching and dimming function, shutter function, send value function, call and store the scene function, shift register function;
- delayed send value (such as switch value, relative dimming value, byte send value);
- Proximity sensing control, backlight sensing status is configurable.
- RGB and RGBW dimming function, LED indicator function;
- 8 logic functions, 8 groups of event functions;
- temperature and humidity sensor parameter display and device linkage control
- Fits for 86mm Wall box installation.



## KNX Smart Switch—T8



One Button



Two Buttons



Three Buttons



Four Buttons



Five Buttons



Six Buttons



3 in 1 Rotating Thermostat



3 in 1 Rotating Thermostat



3 in 1 Rotating Thermostat



3 in 1 Thermostat



4" AI Smart Touch



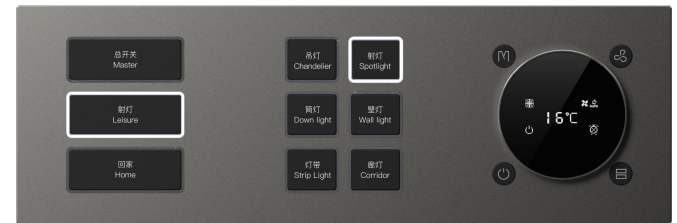
2+3 Pin Socket +2 USB



2 Connected panels



2 Connected panels



3 Connected panels

color:



Gold



Grey





## T9 Series

### Features :

- Colors available (premium grey, bright White), process and material can be customized;
- Switching and dimming functions, shutter function, send value function, recall and store scene function, shift register function;
- Delayed send value (e.g. switching value, relative dimming value, byte send value);
- LED backlight (organe , white) ;
- 8–channel logic functions (and operation, or operation, and non–operation, or non–operation, different or operation, threshold comparator, data type conversion);
- 8 groups of event functions (each group with 8 configurable outputs);
- Fits for 86mm Wall box installation..



## KNX Smart Switch—T9



1-gang Button Panel



2-gang Button Panel



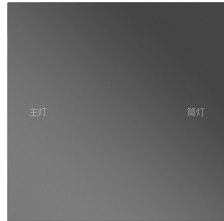
3-gang Button Panel



4-gang Button Panel



2-gang Thermostat with Display<sup>3</sup> in 1 Rotating Thermostat



1-gang Button Panel



2-gang Button Panel



3-gang Button Panel



4-gang Button Panel



4" Thermostat panel



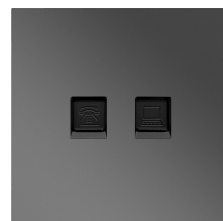
4" AI Smart Touch



2+ 3 Pins



2+3 Pin Socket +2 USB



Tel+PC

Color:



Grey



bright White





## T10 Series

### Features:

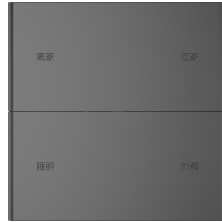
- Color optional(gold,white,gray),finish and material can be customized;
- Smart switch:1/2/3/4–gang switch,built–in16A relay,10A current output;
- Switching and dimming functions, blinds function, send value function, recall and store scene function, shift register function;
- Delayed send value (e.g. switching values, relative dimming values, byte sending values);
- Function panel:AI voice smart switch,3 in 1 thermostat,curtain panel,background music,touch panel.....



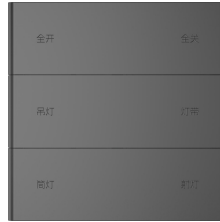
## KNX Smart Switch—T10



1-gang Biutton Panel



2-gang Biutton Panel



3-gang Biutton Panel



4-gang Biutton Panel



2-gang Button with 3" display



4" AI Smart Touch



2+ 3 Pins



2+3 Pin Socket +2 USB



Tel+ PC



Thermostat



AI Voice Control  
Thermostat + button  
panel



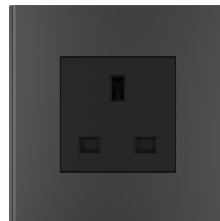
Touch+Pad



3 Pin Socket



2 Pin Sockets



3 Pin Socket

Color:



Rose Gold



Modern Grey





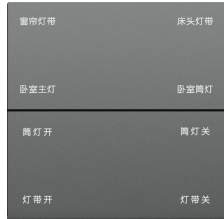
## D10N Series

### Features:

- Colour (Ferrari red, champagne gold, champagne silver, snowflake silver, mica black), finish and material can be customized;
- Smart Switch: 4gang, Built-in relay 16A, 10A current output;
- Switching and dimming functions, blinds function, send value function, recall and store scene function, shift register function;
- Delayed send value (e.g. switching values, relative dimming values, byte sending values);
- Function panel: AI voice smart switch, 3 in 1 thermostat, curtain panel, background music, touch panel.....



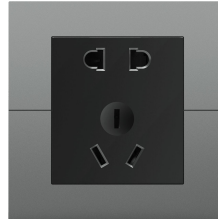
## KNX Smart Switch—D10N



8 key push button



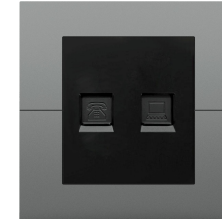
Thermostat



2 + 3 Pins



2+3 Pin Socket +2 USB



Tel + PC



4" AI Smart Touch



2 Connected Panels



3 Connected Panels

Color:



Ferrari red



champagne gold



champagne silver



snowflake silver



mica black





## D11 Series

### Features:

- Colour (Ferrari red, champagne gold, champagne silver, snowflake silver, mica black), finish and material can be customized;
- Smart Switch: 4gang, Built-in relay 16A, 10A current output;
- Switching and dimming functions, blinds function, send value function, recall and store scene function, shift register function;
- Delayed send value (e.g. switching values, relative dimming values, byte sending values);
- Function panel: AI voice smart switch, 3 in 1 thermostat, curtain panel, background music, touch panel.....





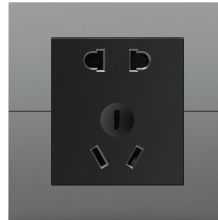
## KNX Smart Switch—D11



8 key push button



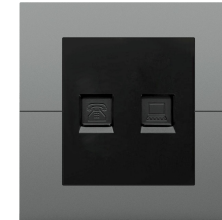
Thermostat



2 + 3 Pins



2+3 Pin Socket +2 USB



Tel + PC



4" AI Smart Touch



2 Connected Panels



3 Connected Panels

Color:



Ferrari red



champagne gold



champagne silver



snowflake silver



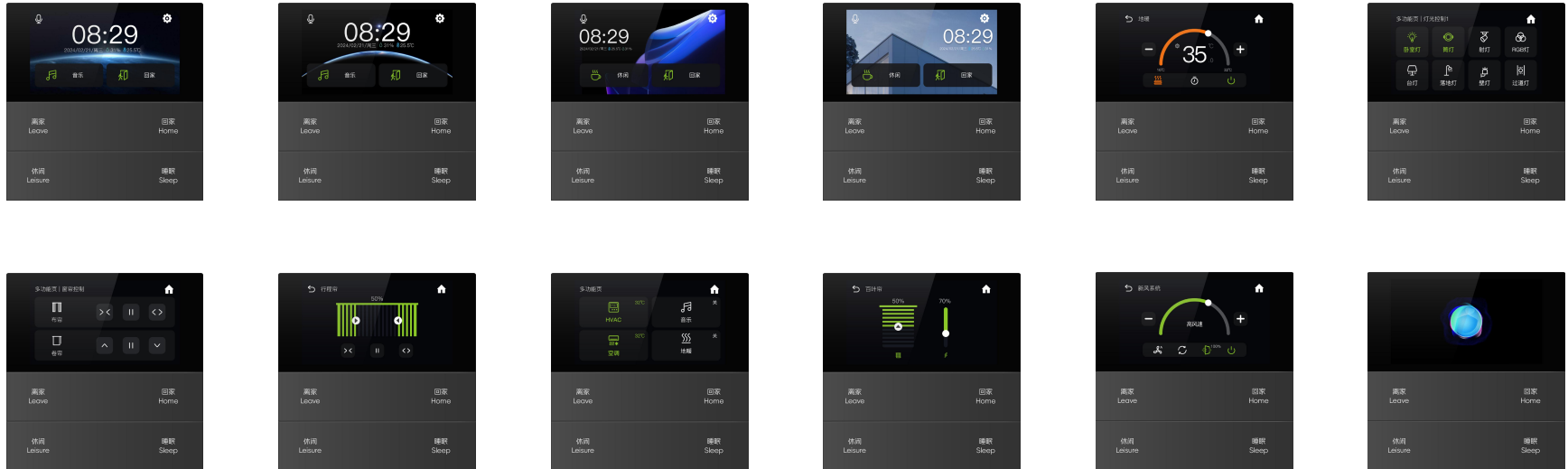
mica black

## KNX Smart Touch

Perfect Combination of Art and Technology



## KNX Smart Touch—3 Inch



### Features

- 854\*480 HD Screen;
- Switches,curtains,scenes,HVAC,dimming, Background music control.....
- Supports up to 32 scene management,32 light objects;
- Supports up to 6 groups of curtain objects;
- Air conditioning,fresh air,and fbool heating control functions;
- Dual micro phone offline AI voice control,8–meter accuratere cognition;
- Built–in 16A magnetic latching relay,2 channels,10A output

## KNX Smart Touch—4 Inch AI Voice Control



### Features:

- 480\*480/720\*720 HD Screen; ;
- HVAC, air conditioning, floor heating, fresh air and other.....;
- 2-channel relay,supports relay circuit expansion up to 5 channels;
- 8ms High-precision online voice recognition control;
- 200 "light ,scene,... "offline command
- Proximity-induced illuminated screen with configurable parameters for linking to other KNX bus devices;

- Basic functions such as switching, dimming, curtains, scenes, value sending, etc.;
- Fully open,selective control,timing,scene,central control,logic autofunction
- Human-computer interactive dialogue with real voice ;
- Online music,English,stories,weather,search;
- Standard KNX protocol;
- Air quality, power consumption, current, voltage and other energy consumption data monitoring display .

## KNX Smart Touch—4 Inch AI Voice Control with decoration strip



### Features:

- 480\*480/720\*720 HD Screen; ;
- HVAC, air conditioning, floor heating, fresh air and other.....;
- 2-channel relay,supports relay circuit expansion up to 5 channels;
- 8ms High-precision online voice recognition control;
- 200 "light ,scene,... "offline command
- Proximity-induced illuminated screen with configurable parameters for linking to other KNX bus devices;

- Basic functions such as switching, dimming, curtains, scenes, value sending, etc.;
- Fully open,selective control,timing,scene,central control,logic autofunction
- Human-computer interactive dialogue with real voice ;
- Online music,English,stories,weather,search;
- Standard KNX protocol;
- Air quality, power consumption, current, voltage and other energy consumption data monitoring display .



## KNX Smart Touch—4 Inch AI Voice Control Touch+pad



### Features:

- 480\*480/720\*720HD Screen;
- HVAC, Air conditioner, floor heating, fresh air .....
- 2-channel relay,supports relay circuit expansion up to 5 channels;
- 8ms High-precision online voice recognition control;
- 200"lights,scene"offline voice command;
- Proximity-induced illuminated screen with configurable parameters for linking to other KNX bus devices;

- Basic functions such as switching, dimming, curtains, scenes, value sending, etc.;
- Fully open,selective control,timing,scene,central control,logic autofunction
- Online music,English,stories,weather,search;
- Human-computer interactive dialogue with real voice ;
- Standard KNX protocol;
- Air quality, power consumption, current, voltage and other energy consumption data monitoring display.

### Color:



Rose Gold

Modern Grey

## KNX Smart Touch—5.5" AI Voice Control Smart Touch



### Features:

- 5.5-inch MIPI screen, resolution 720\*1280, support capacitive touch
- Support touch or key vibration, beep prompt feedback, beep intensity can be customized;
- Basic functions such as switching, dimming (dual-color), curtains, scenes, value sending, etc;
- HVAC, air conditioning, floor heating, fresh air and other.....;
- RGB and RGBW dimming function;
- Air quality data monitoring;
- Power consumption, current, voltage and other energy consumption data monitoring and display;
- Timer function;
- 8 event groups (each with 8 configurable output channels);
- Proximity-sensitive display with configurable parameters for linking to other KNX bus devices;
- Temperature and humidity sensor parameter display and device linkage control, data display and abnormal status alarm;
- Voice function, configurable parameters for linking other KNX devices or local actuator channels;
- Home page navigation for quick UI interaction;
- Time and date display and configuration;
- Secret, screen saver and lock screen functions, screen saver and screen off are independent of each other, different screen saver parameters are available;
- Theme background selection and configuration, can be customized through the SD card to change the picture.

## KNX Smart Touch—10.1" Smart Touch

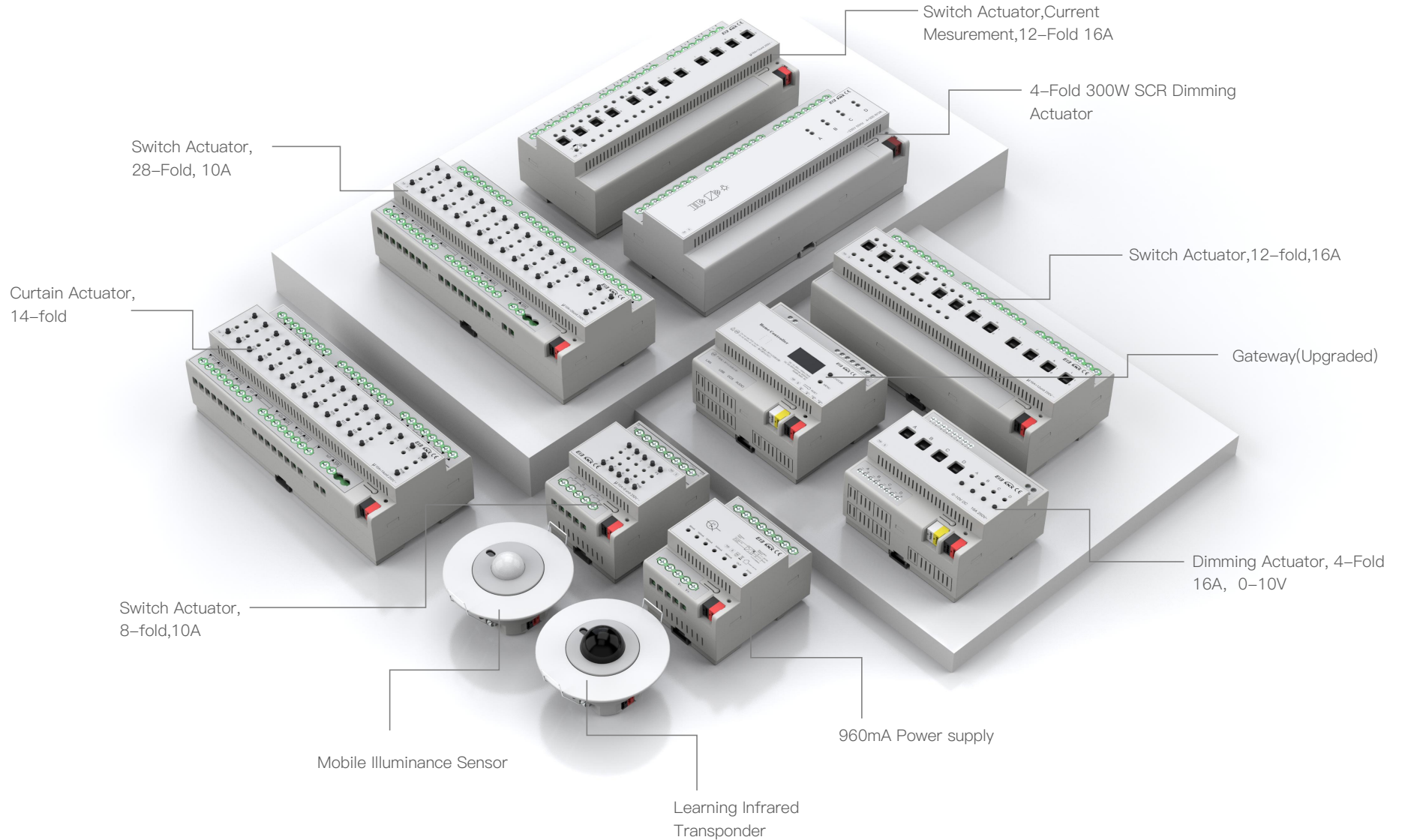


### Features:

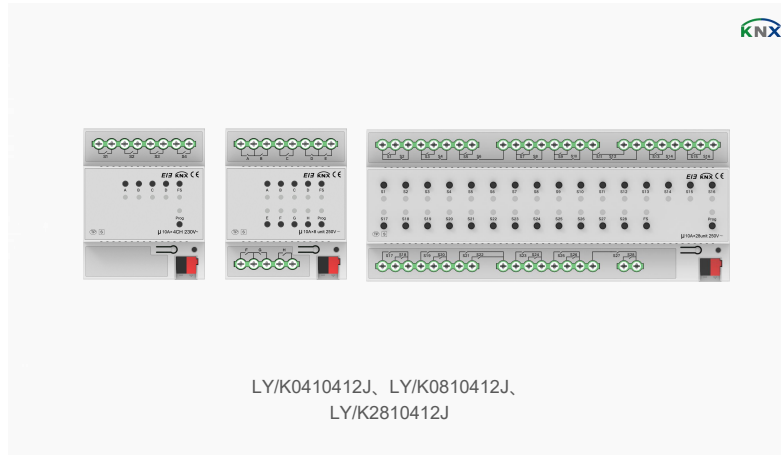
- Video intercom
- KNX protocol



## KNX Centralized Actuator



## KNX Centralized Actuator—Switch Actuator

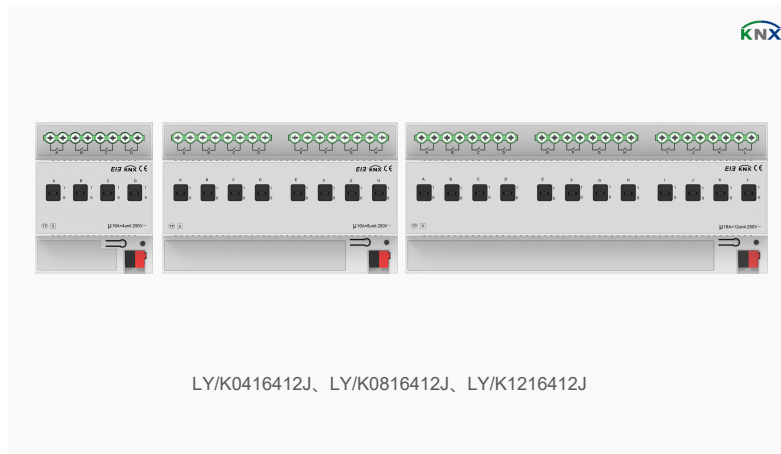


### Switch Actuator, 4/8/28-Fold, 10A

#### Function&Feature

1. For 4-way, 8-way, 28-way load device on/off control, output rated current is 10A;
2. Delayed on/off time, staircase lighting function, scene, preset control: 5 bits / 1 bit, logic operation, status value query reply, forced operation and safety insurance function, threshold function setting, electric valve driver control, relay switch position selection after bus voltage disconnection and recovery;

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby current: < 360mW
- Number of Channel: 4/8/28 channels
- Rated voltage: 230VAC (50/60HZ)
- Rated current: 10A/channel
- Installation: Standard 35mm DIN rail



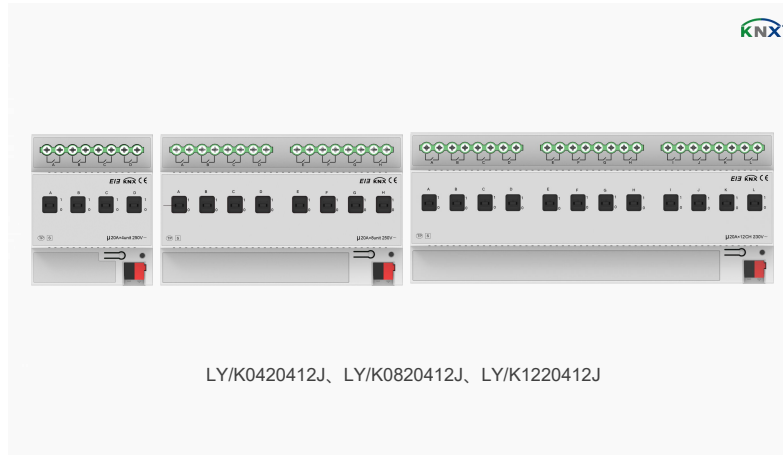
### Switch Actuator, 4/8/12-Fold, 16A

#### Function&Feature

1. For 4-way, 8-way, 12-way load device on/off control, output rated current is 16A;
2. Delayed opening/closing time, staircase lighting function, scene, preset control: 8 bits / 1 bit, logic operation, status value query reply, forced operation and safety insurance function, threshold function setting, control of electric valve driver, relay switch position selection after bus voltage disconnection and restoration;

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby current: < 360mW
- Number of Channel: 4/8/12 channels
- Rated voltage: 230VAC (50/60HZ)
- Rated current: 16A/channel
- Installation: Standard 35mm DIN rail

## KNX Centralized Actuator—Switch Actuator

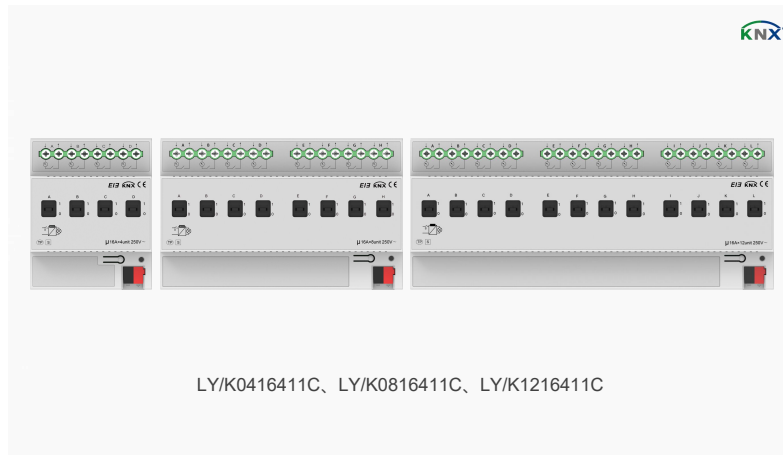


### Switch Actuator, 4/8/12-Fold, 20A

#### Function&Feature

1. For 4-way, 8-way, 12-way load device on/off control, output rated current is 20A;
2. Delayed opening/closing time, staircase lighting function, scene, preset control: 8 bits / 1 bit, logic operation, status value query reply, forced operation and safety insurance function, threshold function setting, control of electric valve driver, relay switch position selection after bus voltage disconnection and restoration;

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby power: < 360mW
- Number of Channel: 4/8/12 channels
- Rated voltage: 230VAC (50/60HZ)
- Rated current: 20A/channel
- Installation: Standard 35mm DIN rail



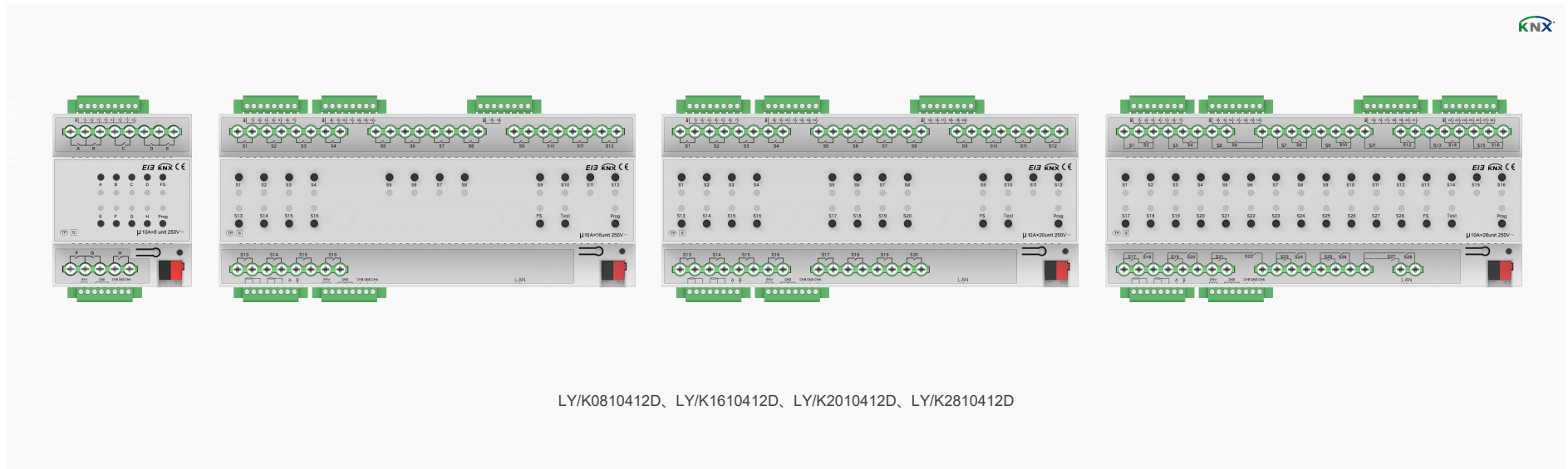
### Switch Actuator, Current Measurement, 4/8/12-Fold, 16A

#### Function&Feature

1. For 4-way, 8-way, 12-way load device on/off control, output rated current is 16A;
2. Delayed on/off time, staircase lighting function, scene, preset control: 8 bits/ 1 bit, logic operation, status value query reply, forced operation and safety insurance function, threshold function setting, control of electric valve actuator, relay switch position selection after bus voltage disconnection and restoration, current detection.

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby power: < 360mW
- Number of Channel: 4/8/12 channels
- Rated voltage: 230VAC (50/60HZ)
- Rated current: 16A/current
- Current detection range: 50mA–16A
- Current detection accuracy: ±5% and ±20mA
- Installation: Standard 35mm DIN rail

## KNX Centralized Actuator—Multi-functional Actuator



### KNX Multi-functional Actuator, 8/16/20/28-Fold, 10A

#### Function&Feature

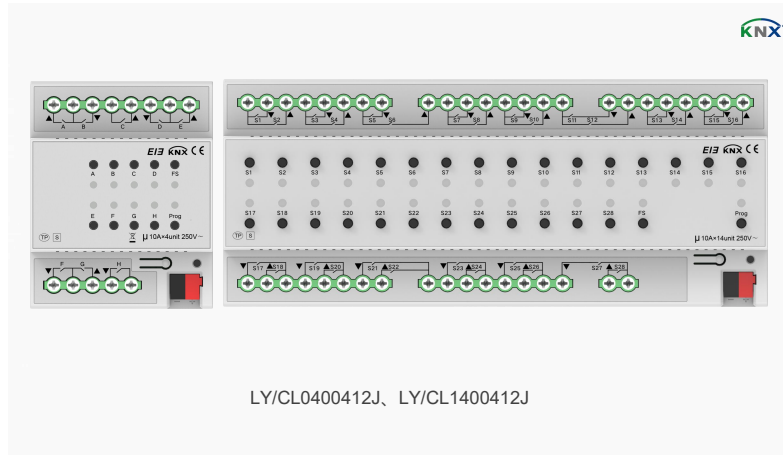
1. For 8-way, 16-way, 20-way, 28-way load device on/off control, output rated current is 10A;
2. Switch function, curtain function, fan function, coil control function, dry contact function, manual/automatic operation switching, etc.
3. With manual button and indicator light for easy debugging;

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby power: < 360mW
- Number of channel: 8/16/20/28-Fold

- Rated voltage: 30V DC
- Rated current: 10A/channel
- Cable distance for Dry contact input: 15m
- Installation: Standard 35mm DIN rail



## KNX Centralized Actuator—Curtain/Dimming Actuator

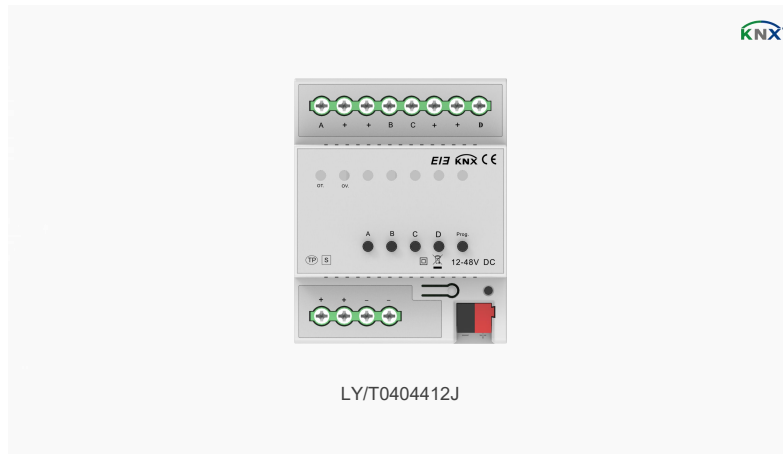


### Curtain Actuator, 4/14-Fold

#### Function&Feature

1. Curtain types: opening and closing curtains, blind, etc.
2. Opening and closing control function: used to control the opening and closing of curtains up and down or left and right;
3. Curtain travel function: used to control the travel percentage of curtains;
4. Scene function: 8 scenes can be set, and each scene can set parameters separately;
5. Other functions: status report function, locking function, protection function;

- Operating voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Channel output: 4/14 channels
- Rated voltage: 230V AC (50/60HZ)
- Rated current: 6A
- Installation: Standard 35mm DIN rail



### Dimming Actuator, 4-Fold (RGB)

#### Function&Feature

1. Switch lighting function, relative dimming function
2. Control the brightness of the lamps and lanterns, status report, 15 scene settings
3. Staircase light function, preset function, preset save function
4. Bus reset function, manual switch/dimming

- Operating voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Input voltage: 12–24VDC
- Output voltage: 12–24VDC
- Rated current: 4A/channel
- Number of channel: 4 channels
- Installation: Standard 35mm DIN rail

## KNX Centralized Actuator—Dimming Actuator



### Dimming Actuator, 4-Fold, 0-10V

#### Function&Feature

1. Switch and dimming function, relative dimming function, absolute dimming function status and error report, scene and preset control, staircase light function;
2. Bus reset function, 0-10V drive, manual dimming, output status indication.

- KNX bus voltage: 21~30VDC
- Current consumption via bus: <12mA
- Bus power consumption: <360mW
- Number of dimming channels: 4 channels
- Output voltage: 0-10VDC
- Output contact switching current : 16A /250V AC
- Installation: Standard 35mm DIN rail



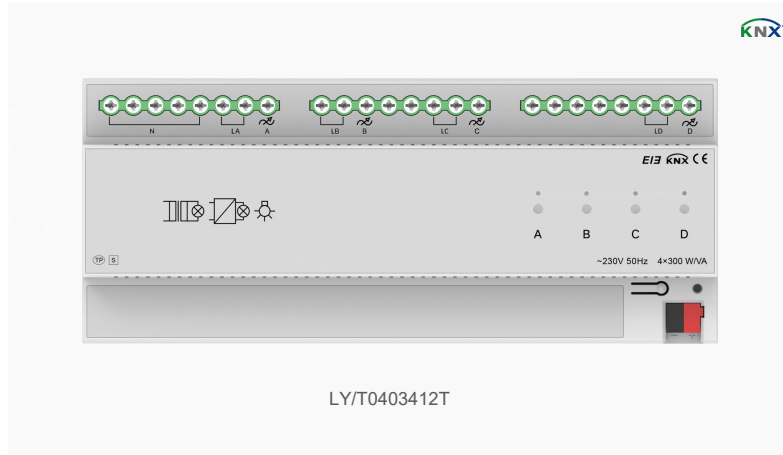
### Dimming Actuator, 4-Fold, 1-10V

#### Function&Feature

1. Switch lighting function, relative dimming function
2. Control the brightness of the lamps and lanterns, status report, 15 scene settings
3. Staircase light function, preset function, preset save function
4. Bus reset function, manual switch/dimming, absorption type 1-10V driver

- KNX bus voltage: 21-30V DC
- Bus current: <12mA
- Bus power consumption: <360mW
- Output voltage: 1-10V DC (absorption type) Max. 100mA per circuit
- Contact switching current: 16A/250V AC, Fluorescent lamp load max.10A/250V AC (140μF)
- Installation: Standard 35mm DIN rail

## KNX Centralized Actuator—Dimming/Gateway



### 4-Fold 300W SCR Dimming Actuator

#### Function&Feature

1. Switch lighting function, relative dimming function;
2. Control the brightness of lamps and lanterns, status report, 15 scene settings;
3. Staircase light function, preset function, preset save function;
4. Bus reset function, manual switch/dimming

- Bus voltage: 21–30V DC, obtained via EIB bus
- Bus current: <12mA
- Standby power: <360mW
- Rated current: 300W/channel
- Number of channel: 4 channels
- Installation: Standard 35mm DIN rail



### Gateway (basic / upgraded)

#### Function&Feature

1. 1\*485/5\*485, interactive communication with KNX bus through TCP/IP, KNX system can be quickly connected to LAN and Internet to realize remote control and management of KNX system.
2. Users can use App (iPad, iPhone, Android, etc.) intelligent terminal, through the host realizes the control of lights, curtains, audio and video, central air conditioning, floor heating, security, monitoring, elevator, home appliances and other equipment;
3. Meanwhile, you can monitor the operation status of each device in real time;

- Operating voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Auxiliary input voltage: 9V–32V DC
- Auxiliary maximum power consumption: <1W
- Number of channel: 1/5 channel
- Installation: Standard 35mm DIN rail

## KNX Centralized Actuator— Smart Gateway

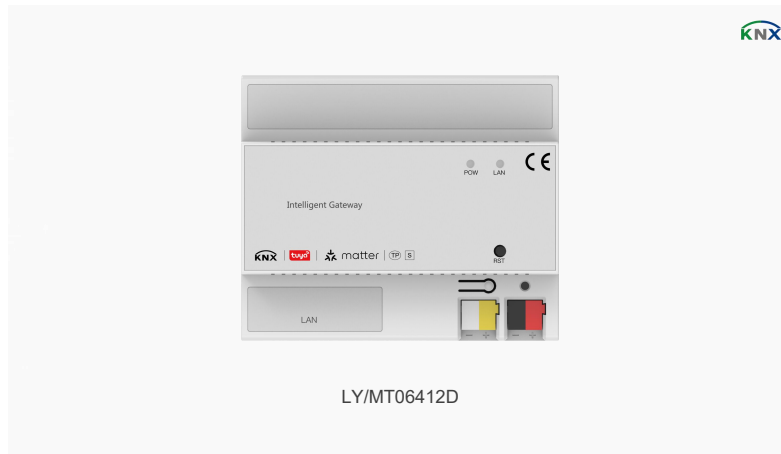


### Dali Gateway, Single/Dual channel

#### Function&Feature

1. Built-in DALI power supply with single/double DALI bus, support up to 64/128 circuits;
2. Real-time detection of equipment failure, including ballast failure, lamp failure, etc.;
3. DALI gateway with "KNX Assistant Software" can manage and assign addresses to DALI ballasts.
4. Support group scene control, with colour temperature control function;
5. Can be used for broadcast, group, circuit or scene control of DT8 type colour temperature controlled ballasts.

- Operating voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Installation: Standard 35mm DIN rail



### Matter Gateway

#### Function&Feature

1. Unique dual system architecture; has both KNX bus and Matter platform features;
2. KNX interface
3. Built-in massive protocol library, can directly connect to commonly used third-party equipment such as air conditioning, fresh air, floor heating, background music, electric curtains, etc. electric curtains and other third-party devices;
4. Support remote APP control, scene combination control, timing control;
5. Support automatic configuration;
6. Support OTA remote upgrade
7. Support Matter platform devices, or support Tuya platform device expansion such as lights, curtains, etc.;
8. Support Xiaodu, Tmall Genie, Apple and other voice control.

- Operating voltage: 9–30V DC
- Operating current: 500mA
- Output interface: 1 USB expansion interface, 1 TCP/IP network interface
- Dimension: 108 × 90 × 64mm
- Installation: flat or cabinet installation



## KNX Centralized Actuator— Smart Gateway



### Huawei HILINK gateway

#### Function&Feature

1. Unique dual system architecture; has both KNX bus and HILINKplatform features;
2. KNX interface
3. Built-in massive protocol library, can directly connect to commonly used third-party equipment such as air conditioning, fresh air, floor heating, background music, electric curtains, etc.
4. Support remote APP control/scene combination control/Timing control;
5. Support automatic configuration;
6. Support OTA remote upgrade
7. Support Huawei HiLink platform devices, or support Tuya platform device expansion such as lights, curtains, etc.;
8. Support Xiaodu, Tmall Genie, Apple and other voice control.

- Operating voltage: 9–30V DC
- Operating current: 500mA
- Output interface: 1 USB expansion interface, 1 TCP/IP network interface
- Dimension: 108 × 90 × 64mm
- Installation: flat or cabinet installation



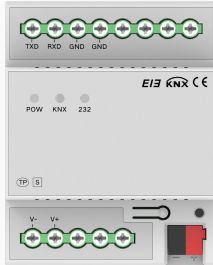
### HomeKit gateway

#### Function&Feature

1. Unique dual system architecture; has both KNX bus and HomeKit platform features;
2. KNX interface
3. Built-in massive protocol library, can directly connect to commonly used third-party equipment such as air conditioning, fresh air, floor heating, background music, electric curtains, etc.electric curtains and other third-party devices;
4. Support remote APP control, scene combination control, timing control;
5. Support automatic configuration;
6. Support OTA remote upgrade
7. Support HomeKit platform devices, or support Tuya platform device expansion such as lights, curtains, etc.;
8. Support Xiaodu, Tmall Genie, Apple and other voice control.

- Operating voltage: 9–30V DC
- Operating current: 500mA
- Output interface: 1 USB expansion interface, 1 TCP/IP network interface
- Dimension: 108 × 90 × 64mm
- Installation: flat or cabinet installation

## KNX Centralized Actuator—System Device



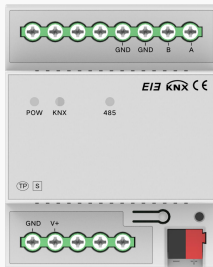
LY/X0232412J

### RS232 Converter

#### Function&Feature

1. Support up to 64 bytes of serial port control instructions, support for 128 commands, through the group address to touch the Send serial port commands;
2. 2 groups of three-wire standard serial port, does not support flow control, through the terminal and serial equipment connected;
3. 2 groups of independent serial port, communication rate, stop bit, parity can be programmed;
4. The farthest communication distance of 15m, support for predefined serial port communication protocols, to achieve control of RS232 devices;
5. It also supports predefined serial port communication protocols to realize RS232 device control

- Operating voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Installation: Standard 35mm DIN rail



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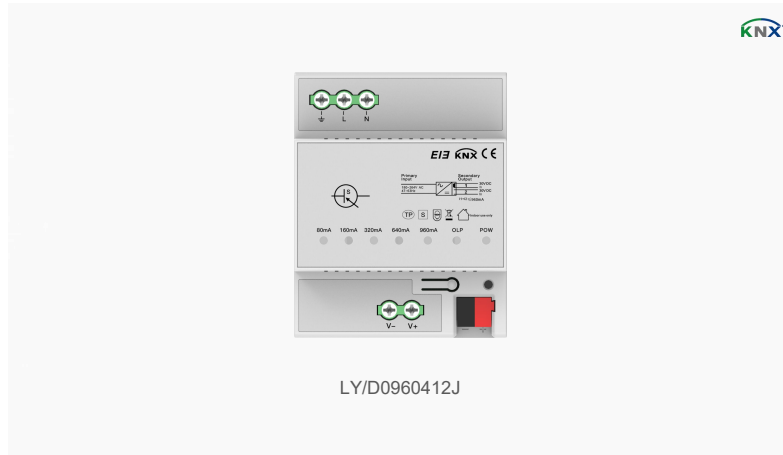
### RS485 converter

#### Function&Feature

Open RS485 communication interface protocol, send and receive communication control messages in a predetermined format, convert RS485 bus messages, and send them to the KNX/EIB network to achieve control of KNX devices, bus monitoring, and filtering functions (filter table can be modified arbitrarily, with a maximum of 254 group addresses, ACK report, successful forwarding report, RS485 bus communication rate is programmable,

- Operating voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Input voltage: 12V–24V DC (485 bus)
- Input maximum power consumption: 120mW(12V),144mW (24V)
- Number of channel: 1 channel
- Installation: Standard 35mm DIN rail

## KNX Centralized Actuator—System Device

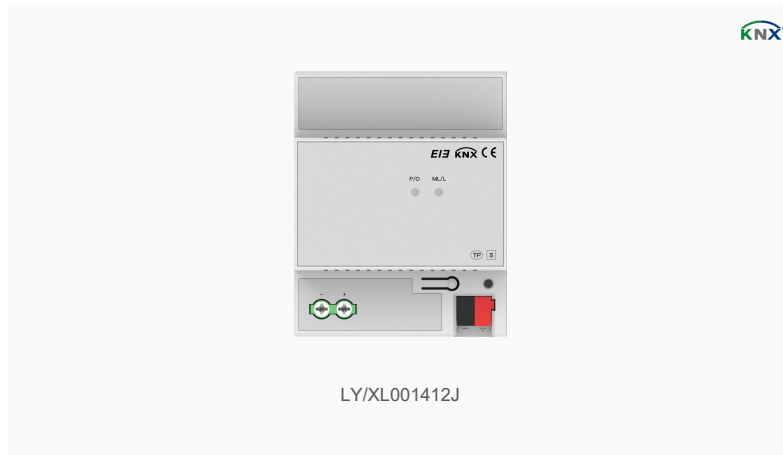


### 960mA Power Supply

#### Function&Feature

1. 2 channel outputs: two current outputs of 960mA total;
2. Power indication: support 4 groups of output power indication, 80mA, 160mA, 320mA. 640mA, 960mA
3. Overload protection, short-circuit protection, bus reset: press the reset button to trigger a bus reset

- Input voltage: 180–264V AC
- Output voltage: 30V DC(Two channels: 1 signal bus, 1 auxiliary power supply)
- Output current: 2 way total<=960mA
- Number of channel: 3 channels
- Installation: Standard 35mm DIN rail



### Line Coupler

#### Function&Feature

1. Can be used as line/area coupler or repeater;
2. As a line coupler can connect the branch line to the main line;
3. As an area coupler can connect the main line to the area line.

- AUX Power supply: 5VDC...30VDC
- Built-in KNX bus power output: 640mA/30VDC(Branch line output)
- KNX Device current consumption: <10mA / channel
- KNX bus loss: <250mW/ channel
- SELV : 31V DC
- Installation: Standard 35mm DIN rail

## KNX Centralized Actuator—System Device

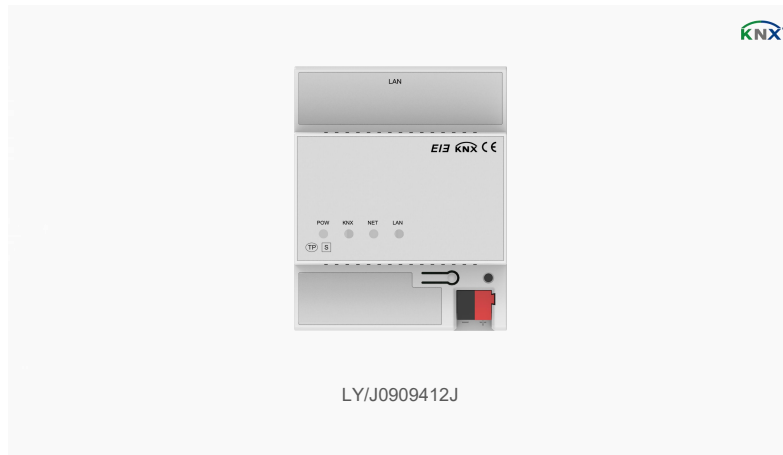


### IP Router

#### Function&Feature

1. With automatic sense and set network baud rate (10/100MB);
2. Filtering/passing or blocking of group messages;
3. Transparent forwarding of communication control telegrams;
4. Monitoring KNX bus messages ,forward them to all established clients.

- Power supply : DC 5V...36V
- KNX device current consumption: <10mA
- KNX bus loss : <500mW
- Rated voltage: DC 24V
- Rated current: DC 60 mA 、DC 1200 mA
- SELV : 24V DC
- Installation: Standard 35mm DIN rail



### TCP IP Interface

#### Function&Feature

1. IP interface is designed for EIB/KNX intelligent building control system, used to realize communication between PC and KNX system;
2. The interface connects to the ethernet through the standard RJ45 network port with an adaptive transmission rate of 10/100Mbit/s.

- Operating voltage: 21–30V DC, supplied by bus
- Operating current: <12mA
- Standby power: <360mW
- Auxiliary power supply voltage: 12V~30V DC
- Auxiliary power supply power consumption: <2.5W
- Installation: Standard 35mm DIN rail



## KNX Centralized Actuator—Smart Sensor



### Integrated environmental sensor (Temp/RH/PM2.5/CO<sub>2</sub>/Formald)

#### Function&Feature

1. PM2.5, PM10 concentration detection display;
2. Temperature, humidity detection display;
3. PM2.5, PM10 concentration, temperature, humidity and other parameters bus upload;
4. Air quality index (AQI) level detection display;
5. Control of air quality level/control of air quality pollution level/control of heating or cooling/control of humidity level.
6. Three logic control functions.

- Operating voltage: 21~30V DC , supplied by bus
- Auxliary voltage: 21~30V DC
- Output: Display temperature, humidity, PM2.5
- Maximum power consumption: <1.5W
- EIB / KNX : Bus connection terminal
- Installation: Standard 86mm or German 60mm wall box



### Learning infrared transponder

#### Function&Feature

1. Bus control of air conditioning, TV and other equipment, voice control of discrete infrared equipment, such as air conditioning, television etc., database setting parameters to force control of air conditioning equipment, bus other sensors linked to control air air-conditioning equipment by linkage of other sensors on the bus;
2. Scene and sequence control function, air-conditioning status feedback function, screen display and wind sweep control function, Powerful mode control function.

- Operating voltage: 21~30V DC
- Operating current: <12mA
- Standby power: <360mW

## KNX Centralized Actuator—Sensor



### Mobile Illuminance Sensor

#### Function&Feature

1. Illuminance sensing, 0lux–65535lux, with threshold function;
  2. The installation height of 2 times, the maximum diameter is 8 metres, with "and" "or" "or" "logic function;
  3. With three types of output data, the value can be sent cyclically; with master–slave sensor control network function
- With three types of output data, value can be sent cyclically; with master–slave sensor control networking function, the host has three types of output data to prohibit movement, illumination function.

- Operating voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW



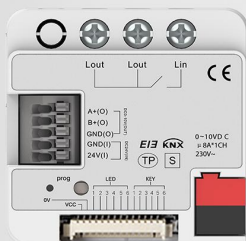
### Bio-presence Sensor

#### Function&Feature

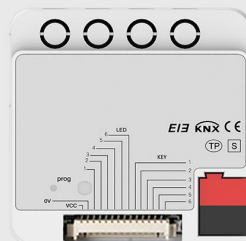
1. Illumination sensing range: 1 lux ~ 60k lux; Day/night control mode can be configured independently;
2. Support 3 types of output data, such as switching volume, dimming value and scene value;
3. Working mode: manual mode, full/semi-automatic mode; brightness threshold setting function;
4. Motion detection with 1~10 levels of sensitivity;
5. Working and idle cycle setting;;
6. Master–slave detector network function, support for illuminance value output function, the value can be timed to send cycle;

- Input voltage: 12–30Vdc
- Operating current: ≤50mA @24V DC
- Operating power consumption: ≤1.2W
- Communication metho: KNX
- Transmission frequency: 24–24.25GHz
- Transmission power: 15dBm (max)
- Motion sensing distance: 1.5–4m
- Presence detection distance: 1–3m
- Illuminance: 0–65535LUX
- Delay time: 10–7200s

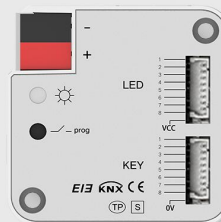
## KNX Distributed Actuator



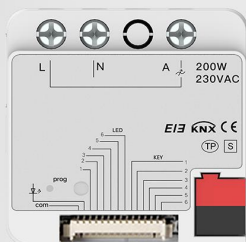
Dimming Actuator, Flush-mounted, 2-Fold 0-10V



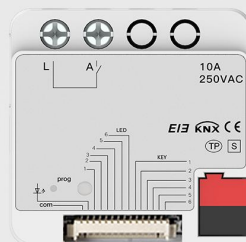
6-Fold Universal Interface, Flush-mounted



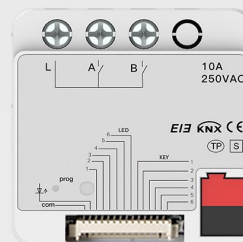
8-Fold Universal Interface, Flush-mounted



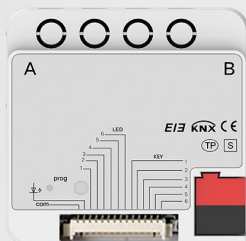
Dimming Actuator, Flush-mounted, 1-Fold 1A



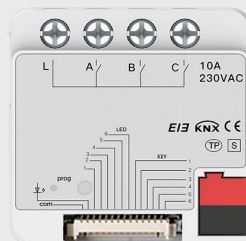
Switch Actuator, Flush-mounted, 1-Fold (10A)



Switch Actuator, Flush-mounted, 2-Fold (10A)



Dry Contact Curtain Actuator, Flush-mounted, 2-Fold



Switch Actuator, Flush-mounted, 3-Fold (10A)

## KNX Distributed Actuator—Switch Actuator



### Switch Actuator, Flush mounted, 1/2/3-Fold 10A

#### Function&Feature

1. 1/2/3 fold imported 16A magnetic hold relay, super anti-surge current;
2. 6 fold dry contact inputs. Switch and dimming function, shutter function, call and store scene function, fixed value sending function etc;
3. 6 fold LED indicator. Can connect to any electrical switch, electronic switch, dry contact;
4. Easy to install, traditional electricians can also work without changing lines, directly connected to the original line can be used;

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby power: < 360mW
- Output voltage: 220V AC (50/60Hz)
- Output current: 10A (70uF) /channel
- Number of channel: 1/2/3-channel
- LED output: 6 LED outputs (maximum current per output 2.5mA)
- Dry contact input: 6 fold passive key inputs
- Installation: Standard 86mm or German 60mm wall box



### Switch Actuator, Flush mounted, 1/2/3-Fold 10A(12V)

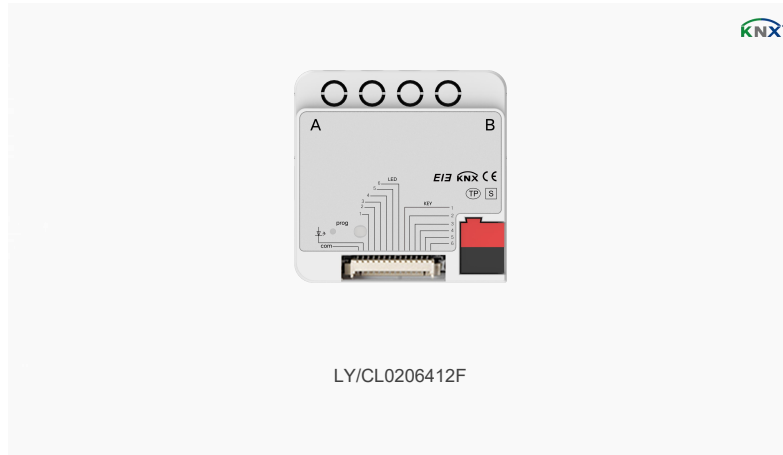
#### Function&Feature

1. 1/2/3 fold imported 16A magnetic hold relay, super anti-surge current;
2. 6 fold dry contact inputs. Switch and dimming function, shutter function, call and store scene function, fixed value sending function etc;
3. 6 fold LED indicator. Can connect to any electrical switch, electronic switch, dry contact;
4. Easy to install, traditional electricians can also work without changing lines, directly connected to the original line can be used;

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby power: < 360mW
- Output voltage: 220V AC (50/60Hz)
- Output current: 10A (70uF) /channel
- Number of channel: 1/2/3-channel
- LED output: 6 LED outputs (maximum current per output 2.5mA)
- Dry contact input: 6 fold passive key inputs
- Installation: Standard 86mm or German 60mm wall box



## KNX Distributed Actuator— Curtain Actuator



### Dry Contact Curtain Actuator, Flush-mounted, 2-Fold

#### Function & Features

1. Dry contact input scan;
2. Switching and dimming function, shutter function, call and store scene function, fixed value sending function;
3. Curtain output: open and close curtains, stop curtains moving;
4. Provide 8 scene control by 1byte object call and storage
5. Query or reply to the opening and closing status of curtains;
6. The curtain action can be set when the bus voltage is restored;

- Operating voltage: 21~30V DC, supplied by the bus
- Quiescent current: <12mA
- Output channel: Two independent dry contact control type motors can be connected
- LED output channel: 6 fold negative connections
- Output current: 1mA
- Input channel: 6 channels
- Installation: Standard 86mm or German 60mm wall box



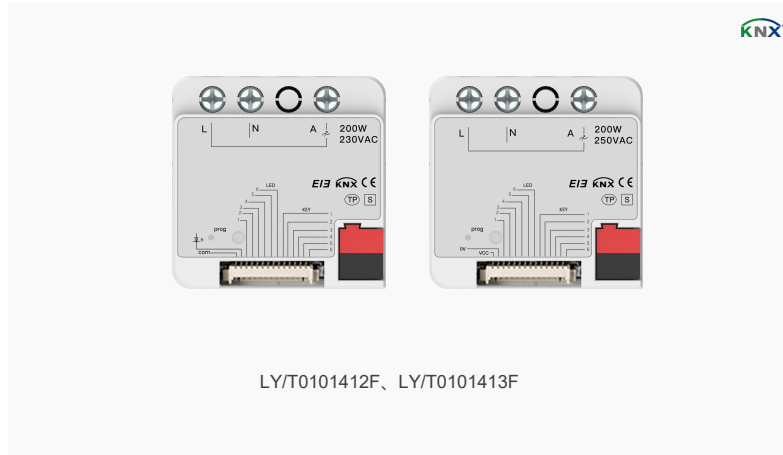
### Dry Contact Curtain Actuator, Flush-mounted, 2-Fold(12V)

#### Function & Features

1. Dry contact input scan;
2. Switching and dimming function, shutter function, call and store scene function, fixed value sending function;
3. Curtain output: open and close curtains, stop curtains moving;
4. Provide 8 scene control by 1byte object call and storage
5. Query or reply to the opening and closing status of curtains;
6. The curtain action can be set when the bus voltage is restored;

- Operating voltage: 21~30V DC, supplied by the bus
- Quiescent current: <12mA
- Output channel: Two independent dry contact control type motors can be connected
- LED output channel: 6 fold negative connections
- Output current: 1mA
- Input channel: 6 channels
- Installation: Standard 86mm or German 60mm wall box

## KNX Distributed Actuator—Dimming Actuator

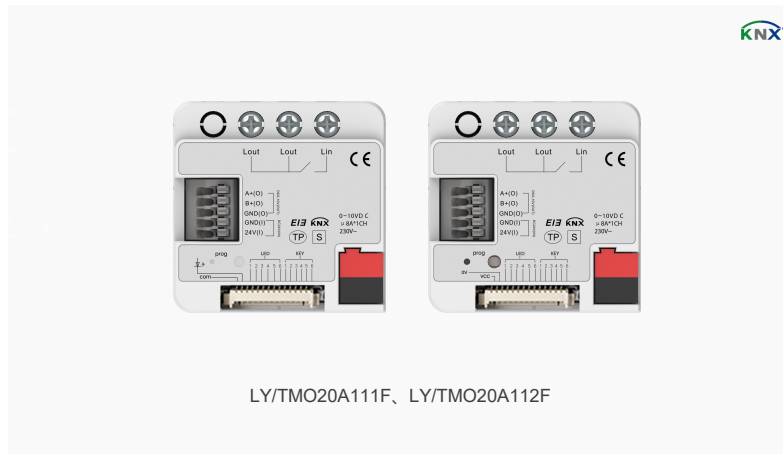


### Dimming Actuator, Flush-mounted, 1-Fold 1A (3.3V/12V)

#### Function & Features

1. 1 channel 200W dimming output, adjustable incandescent lamp, halogen lamp. 6 fold dry contact inputs
2. Switching and dimming function, shutter function, call and store scene function, fixed value sending function;
3. 6 fold LED indicator. Can connect to any electrical switch, electronic switch, dry contact.
4. Easy to install, traditional electricians can also work without changing lines, directly connected to the original line can be used.

- Operating Voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Output voltage: 220V AC (50/60Hz)
- Output power: 220V AC (50/60Hz) 200W/channel
- Installation: Standard 86mm or German 60mm wall box



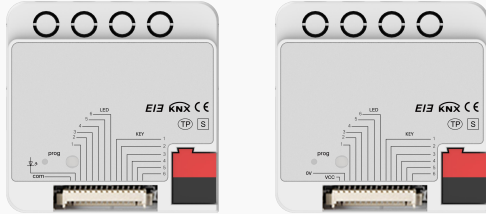
### Dimming Actuator, Flush-mounted, 2-Fold 0–10V

#### Function & Features

1. 2-fold imported 16A magnetic retention relay, super anti-surge current. 6-fold dry contact input. Switching and dimming function, shutter function, call and store scene function, fixed value sending and other functions
2. 6-channel LED indication, connect to any electrical switch, electronic switch, dry connect, etc;
3. 0–10V dimming output control (the device has up to two 0–10V control outputs)

- Operating voltage: 21~30V DC
- Auxiliary voltage: 24V DC
- KNX power supply: <12mA (30V DC)
- Auxiliary power supply: <30mA (24V DC)
- KNX power supply: 6mA
- Auxiliary power supply: 25mA
- Number of loops: 2
- Rated voltage: 230V AC (50~60Hz)
- Output current: 8A230V (resistive load) 150W1230V (capacitive load) 0–10V DC, max.15mA per output

## KNX Distributed Actuator—System Device



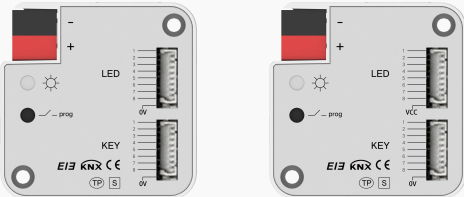
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### 6-Fold Universal Interface, Flush-mounted(3.3V/12V)

#### Function & Features

1. Switch function: Converts dry contact input signals into switch signals.
2. Dimming function: Converts dry contact input signals into dimming signals
3. Curtain function: Converts dry contact input signal into curtain control signal.
4. Counter function: Converts dry contact input signal into switching signal times
5. Value/Force output function: Converts dry contact input signal to control value.
6. Switch sequence function: Converts dry contact input signals into switch sequences.
7. Multi-operation function: Converts dry contact input signals into multiple switches at different times.

- Operating Voltage: 21–30V DC
- Operating current: < 12mA
- Standby power: < 360mW
- Output: 6 channels LED output
- Input: 6 fold passive key inputs
- Installation: Standard 86mm or German 60mm wall box



LY/J0801411T、LY/J0801412T

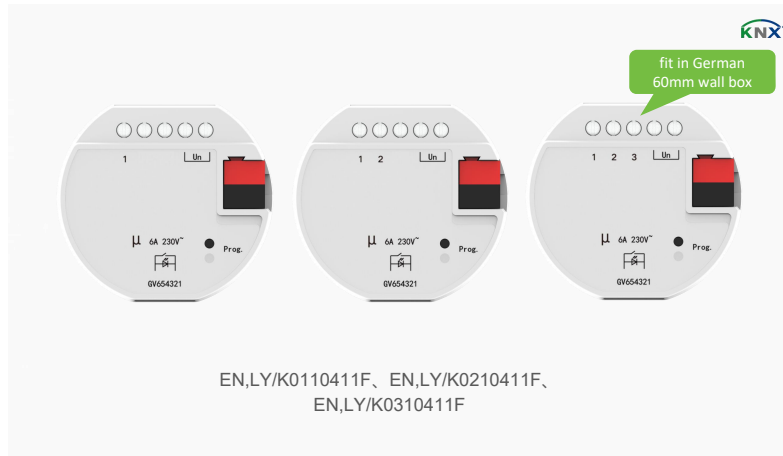
### 8-Fold Universal Interface, Flush-mounted(3.3V/12V)

#### Function & Features

1. Switch function: Converts dry contact input signals into switch signals.
2. Dimming function: Converts dry contact input signals into dimming signals
3. Curtain function: Converts dry contact input signal into curtain control signal.
4. Counter function: Converts dry contact input signal into switching signal times
5. Value/Force output function: Converts dry contact input signal to control value.
6. Switch sequence function: Converts dry contact input signals into switch sequences.
7. Multi-operation function: Converts dry contact input signals into multiple switches at different times.

- Operating voltage: 21–30V DC
- Operating current: < 12mA
- Standby power: < 360mW
- Output: 8channels LED output
- Input: 8 fold passive key inputs
- Installation: Standard 86mm or German 60mm wall box

## KNX Distributed Actuator—Switch/Dimming Actuator(fit in German 60mm wall box)

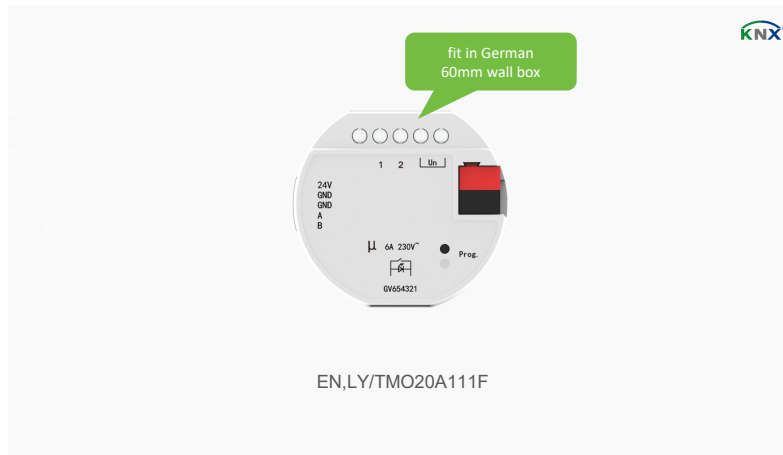


### Switch Actuator, Flush-mounted, 1/2/3-Fold (10A)

#### Function & Features

1. 1/2/3-fold imported 16A magnetic hold relay, super anti-surge current
2. 6 fold dry contact inputs. Switch and dimming function, shutter function, call and store scene function, fixed value sending function etc
3. 6 fold LED indicator, can connect to any electrical switch, electronic switches, dry contact, etc;
4. Easy to install, traditional electricians can also work without changing lines, directly connected to the original line can be used.

- Operating Voltage: 21–30V DC
- Operating current: <12mA
- Standby power: <360mW
- Output voltage: 220V AC (50/60Hz)
- Output current: 10A (70uF) /channel
- Number of channel: 1/2/3 channel
- Dry contact input: 6 fold passive key inputs
- Installation: Standard German 60mm wall box



### Dimming Actuator, Flush-mounted, 2-Fold 0–10V

#### Function & Features

1. Dry contact input scan;
2. Switching and dimming function, shutter function, call and store scene function, fixed value sending function;
3. Curtain output open and close curtains, stop curtain moving;
4. Provide 8 scene, called and stored by 1byte objects;
5. Query or reply to the open or closed status of the curtains;
6. The curtain action can be set when the bus voltage is restored;

- Operating voltage: 21~30V DC
- Quiescent current: <12mA
- Output channel: Two independent dry contact control type motors can be connected
- LED output channel: 6 fold negative connections
- Output current: 1mA
- Input channel: 6 fold
- Installation: Standard German 60mm wall box

## System Software



## Description:

- Insertion of graphics such as BMP, EMF, WMF, JPG, GIF, CLP, etc.
- Timing control of devices in KNX / EIB intelligent control systems
- Logic control, time-delayed switching of devices, scene control, counting or timing statistics of device switching.
- Real-time display of information such as switching of a device or alarms.
- Real-time printing of various information
- Query history records
- Real-time display of device switching status
- Switching and dimming control through the switch button graphics can be alarm indication
- Edit the graphics of different areas and monitoring places, and can switch the display with each other
- Provide 5 different levels of user passwords to control different devices in the system to improve the security of the system.



APP Control

