

Technical Sheet For KNX Universal Dimming Actuator, 1-Fold KNX Universal Dimming Actuator, 2-Fold KNX Universal Dimming Actuator, 4-Fold

ADUD-01/02.3
ADUD-02/02.3
ADUD-04/02.3



The worldwide STANDARD for home and building control

CHARACTERISTICS

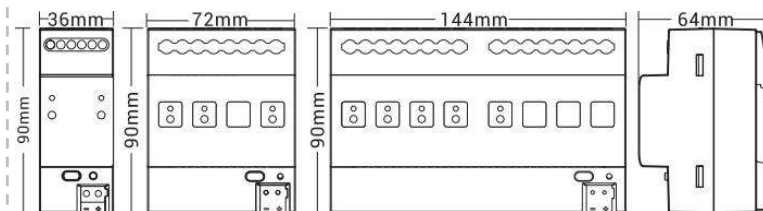
- Switch, Relative dimming/Absolute dimming
- Status feedback of switch, brightness, as well as abnormal status (short-circuit, over-voltage, over-temperature and operating voltage failure)
- Reset behaviour after download/bus failure/bus recovery
- 6 dimming curves, including Linear, Exponential, Cubic, Quadratic, Logarithmic, Root and User defined curves
- Leading edge/Trailing edge phase cut dimming
- Manual operation and Output indication function
- Central control function (Only apply for 2/4-fold)
- Individual or parallel output (Parallel can expand the load capacity, only apply for 2/4-fold)
- Staircase lighting, Flashing switch and Delay switch, as well as Scene, Threshold, Forced operation, Safety operation and Operation hours counter
- Logic function, with AND, OR, XOR, Gate forwarding, Threshold comparator, Format convert, Gate function, Delay function and Staircase lighting
- Support the KNX Data Secure

PARAMETERS

Power supply	Bus voltage	21-30V DC, via the KNX bus
	Bus current	<6mA/24V, <5.5mA/30V (1 fold) <7mA/24V, <6mA/30V (2 fold) <7.5mA/24V, <6.5mA/30V (4 fold)
Output	Bus consumption	<165mW (1 fold) <180mW (2 fold) <195mW (4 fold)
	Dimming channel	1/2/4 folds, separate phase connection
	Max. output capacity	300W (per channel, Incandescent/ Halogen/ LED, trailing edge) Parallel: 2 channels 500W / 3 channels 750W/ 4 channel 1000W
	U _n rated voltage	110~230 V AC (50/60HZ)
Connection	Protection	Short-circuit, Over-voltage, Over-temperature
	Standby loss	Approx. 0.7W
	Power loss	≤2W / per channel
	KNX	Bus connection terminals

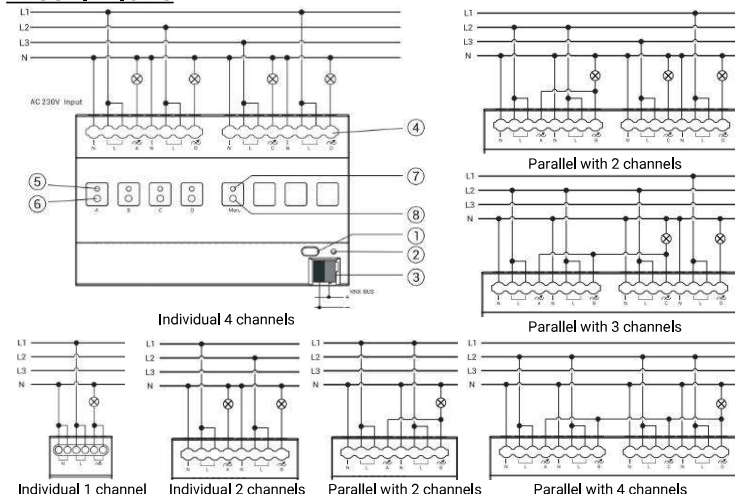
Operation and display	Outputs	Screw terminals
	Wire Range	0.2~2.5mm ² (1 fold) 0.2~6.0mm ² (2/4 fold)
	Programming button and Red LED	For assigning the physical address
	Green LED flashing	For displaying application layer running normally
	Channel button	For manual switching or dimming
	Channel indication LED	Indicates channel status of the load
Temperature	Man./Auto. button	Change the Man./Auto. mode
	Man./Auto. LED	Indicate the Man./Auto. mode status
	Operation	-5 °C ... +45 °C
	Storage	-25 °C ... +55 °C
Environment	Transport	-25 °C ... +70 °C
	Humidity	<93%, except dewing
Mounting	On 35mm mounting rail	

DIMENSIONS



Model	Dimension	Weight
ADUD-01/02.3	36 x 90 x 64 mm	0.2kg
ADUD-02/02.3	72 x 90 x 64 mm	0.3kg
ADUD-04/02.3	144 x 90 x 64 mm	0.5kg

DESCRIPTIONS



- ① Programming button
- ② Programming LED
- ③ KNX bus connection terminal
- ④ Input, Output, load terminal
- ⑤ Channel indication LED: in normal mode, LED off is the lamp off, LED on is the lamp on; in manual mode, flashing slowly is dimming manually. Flashing fast is channel abnormality (Short-circuit, Over-voltage, Over-temperature, Operating voltage failure)
- ⑥ Channel button: when no ETS configuration, press to switch on/off; in manual mode, short press to switch on/off, long press for dimming up/down, long press then release to stop dimming
- ⑦⑧ Man./Auto. operation switch button and status indicating LED: Long press to switchover Man. and Auto. mode, LED on is Man. mode and off is Auto. mode.

Reset the device to the factory configuration: press the programming button and hold for 4 seconds then release, repeat the operation for 4 times, and the interval between each operation is less than 3 seconds

INSTALLATION FIGURE

The devices are suitable for installation on the distribution boards with 35mm DIN rail which complies with DIN EN 60715 in order to facilitate quick installation of the device. Must ensure that the device operation, testing, detecting, maintenance correctly.

IMPORTANT INFORMATION

Installation and commissioning of the device may only be carried out by trained electricians. The relevant standards, directives, regulations and instructions must be observed when planning and implementing the electrical installation.

- Protect the device against moisture, dirt and damage during transport, storage and operation!
 - Do not operate the device outside the specified technical data (e.g. temperature range)!
 - The device may only be operated in closed enclosures (e.g. wiring box).
- Should the device become soiled, it may be cleaned with a dry cloth. If this does not suffice, a cloth lightly moistened with soap solution may be used. On no account should caustic agents or solvents be used.

1 路通用调光执行器
2 路通用调光执行器
4 路通用调光执行器技术规格书

适用型号：
ADUD-01/02.3
ADUD-02/02.3
ADUD-04/02.3

国际标准的家庭和楼宇控制系统



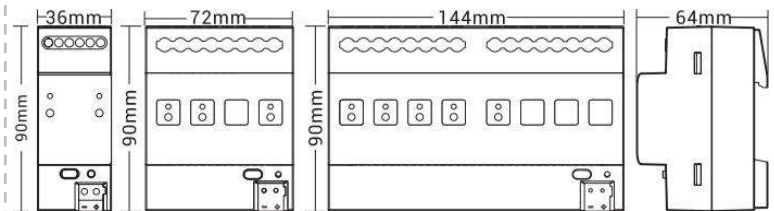
产品功能

- 开关照明、相对调光/绝对调光功能
- 开关、亮度和异常状态报告，异常状态包括短路、过压、过温、供电异常
- 下载、总线掉电、总线上电复位功能
- 6 种调光曲线：线性、指数、三次方、二次方、对数、根函数，以及自定义曲线
- 前切和后切均可配置的调光方式
- 手动操作和输出指示功能
- 集中控制功能（仅 2/4 路支持）
- 独立或者并联输出（并联可扩大带载功率，仅 2/4 路支持）
- 楼梯灯、闪烁和时间功能，以及场景、阈值、强制操作、安全操作和操作时间计时功能
- 逻辑功能：与、或、非、门转发、阈值比较、格式转换、门功能、延时功能和楼梯灯功能
- 支持 KNX 安全

技术参数

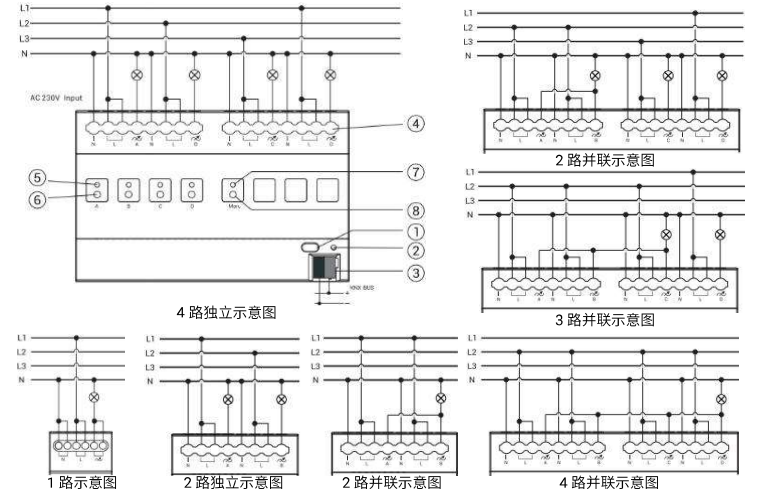
电 源	总线电压	21-30V DC,通过总线取电
	总线电流	<6mA/24V, <5.5mA/30V (1 路) <7mA/24V, <6mA/30V (2 路) <7.5mA/24V, <6.5mA/30V (4 路)
输 出	总线功耗	<165mW (1 路) <180mW (2 路) <195mW (4 路)
	调光输出通道	1/2/4 路，独立相位连接
	最大负载能力	300W (1 路, 白炽灯/卤素灯/LED 灯, 后沿切相) 并联: 2 路 500W/3 路 750W/4 路 1000W
	额定电压	110~230 V AC (50/60HZ)
	保护措施	短路、过压、过温保护
连 接	待机损耗	约 0.7W
	带载损耗	≤2W /每路
操作及显示	连 接	KNX 总线连接端子连接(直径 0.8mm)
	负载输出连接端子	螺丝接线端
	电缆横截面	0.2—2.5mm ² (1 路) 0.2—6.0mm ² (2/4 路)
温 度	编程按键和红色 LED 灯	编程物理地址
	绿色 LED 闪烁	指示应用层运行正常
	通道按键	手动开/关灯或者调光
	通道指示 LED	指示负载的通道状态
	手动/自动按键	切换手动/自动操作模式
	手动/自动 LED	指示手动/自动模式状态
环 境	操作	-5 °C ... + 45 °C
	存储	-25 °C ... + 55 °C
	运输	- 25 °C ... + 70 °C
安 装	湿度	<93%,结露除外
	DIN 导轨模块组件	35mm 丁导轨，模块化安装

尺寸图



型号	尺寸	重量
ADUD-01/02.3	36 x 90 x 64 mm	0.2kg
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说明



- ①编程按键
- ②编程 LED
- ③KNX 总线连接端子
- ④负载输出端
- ⑤通道指示 LED：常态下，常灭-关灯，常亮-开灯；手动状态下，慢闪-手动调光中。快闪-通道异常（短路、过压、过温、供电异常）
- ⑥通道按键：无数据库时，默认进入手动，按下按键-开/关灯；手动状态下，短按-开/关灯；长按-调亮/调暗；长按松开-停止调光
- ⑦⑧手动/自动（Man.）切换按钮和指示：
- 长按切换手动/自动操作，指示灯亮为手动操作模式，灭为自动操作模式
- 重置设备到出厂配置：长按编程按钮约 4 秒，长按 4 次，且每次松开间隔小于 3 秒**

安装说明

此设备为了方便快速安装到配电箱里面，根据 EN 60715 系列设计成模块化安装设备，能安装在 35 毫米丁导轨上。安装时必须确保设备操作、测试、检测、维护、维修正确无误。

重要提示

- 安装和调试设备只能由合格的熟练电工来操作。在计划与实施电气安装的过程中相关的标准、指令、规则和指示都要严格执行。
- 需要避免器件在运输、储存、使用的过程中受潮、脏污以及受损。
 - 不要使器件运行在指定的技术指标之外（例如温度范围）。
 - 器件只可以运行在封闭的环境中（例如接线盒）。

当设备脏污时，只可以使用干燥的布来清洁。如果这样不足以清洁干净,可以使用湿布蘸少许肥皂溶液轻轻擦拭。绝不能使用碱性或者腐蚀性溶剂。