General Features

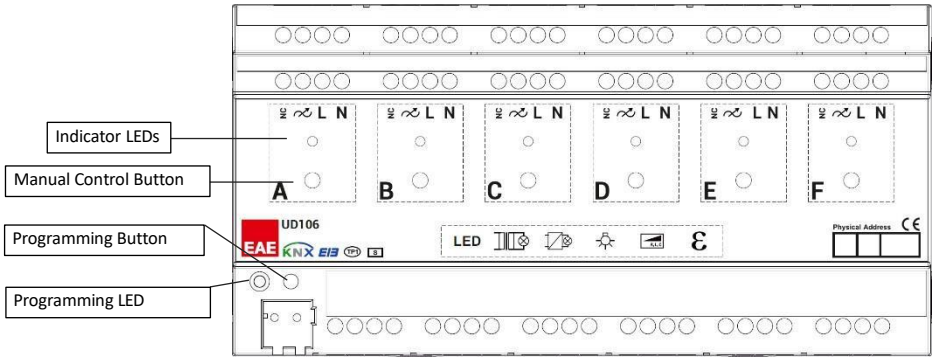
EAE KNX Universal Dimmer Actuator has dimming functions which can be used by phase dimming only. The device can be operated manually via push button over enclosure. Each channel can be programmed via ETS5 or higher. UD106 has 6 independent channels and 3 channel grouping features.

Channel features of dimming actuator;

- Staircase lighting
- Forced Operation
- Channel Grouping (merging outputs for higher power loads)
- Scene Function
- Electrical Measurements (Voltage)
- Error Detection (Load Error, Short-Circuit, Over-current, Over-voltage, Under-voltage, Over-heating)

All features can be used separately or together. Please consider that those features will be processed depending on priority. Bus voltage fails and returns behavior can be set via ETS configuration.

Functional Elements and Connections



NC	No Connection
~	Dimming Output
L	Line
N	Neutral

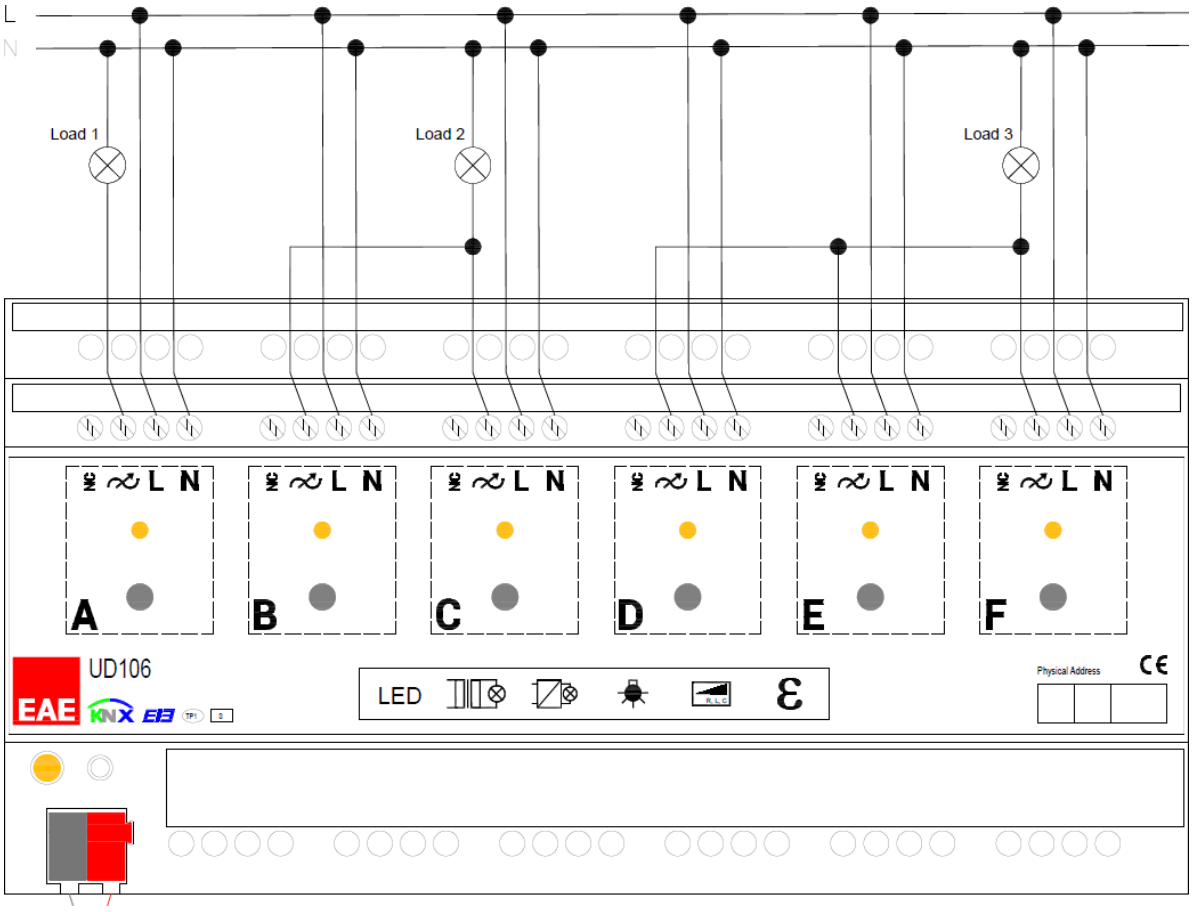
Technical Data

Protection Type	IP 20	EN 60 529
Safety class	II	EN 61 140
KNX Power supply	Voltage	21V… 30V DC, SELV
	Current consumption	< 10 mA
Mains Supply	Min…Max	185… 300V AC (50Hz)
Connections	Screw terminals	0,5…3,31 mm² solid and stranded wire
	Max. tightening torque KNX	0,5…3,31 mm² stranded wire with ferrule 0.5 Nm 0.5 Nm Bus connection terminal
Output	Switching & Dimming	6 outputs Trailing and Leading-Edge Dimming
	Cable length	Max. 200 meters
	Max. switching power	300 VA per channel 300 W halogen, incandescent lamps per channel 300 W Inductive transformers per channel 120 W Constant Voltage drivers* 250 W Phase-cut dimmable LED lamps per channel Multiplying the output power by parallel connection of channels.
	Min. switching power	9 W
Type of contact	Electronically controlled	
Installation	35mm mounting rail	EN 60 715
Operating elements	LED (red) and button On/Off Button	For physical address programming For Switching/Dimming lights
Temperature range	Ambient Storage	-5° C + 45° C -25° C + 55° C
Humidity	Max. air humidity	85 % no moisture condensation
Dimensions	L x W x H Width in units (18 mm modules)	66 x 180 x 90 mm 10 modules
Box	Plastic, polycarbonate, colour grey	
CE	In accordance with the EMC guideline and LV directives	
Electrical Installations		EN 60 669-2-1
EMC requirements		EN 63 044-5-2

NOTE: Device default physical address is 15.15.255. In order to configure switch actuator, ETS application file ".knxprod" is needed. It's possible to download the file on EAE website or ETS Online Catalog. ETS is required for programming the device. Parameter settings and related group addresses can be changed by ETS. Learn more by reading ETS help file.

*: Constant voltage LED drivers draw more current while dimming. The 120 W maximum power value must be observed over the entire dimming range.

Connection Diagram



Single and Grouped Channel Control

Technical Drawings

