



The Universal Dim Actuator UD/S 2.300.2 is a modular installation device (MDRC) for installation in the distribution board. Different load types, e.g. incandescent lamps, 230 V halogen lamps or low-voltage halogen lamps on electronically controlled or conventional transformers, can be connected to two independent outputs.

However, only loads of the same type are permissible on a single channel. The detection of the load type and the setting of the mode *Phase angle control* or *Inverse phase control* are undertaken automatically. Transformers from ABB are recommended for connection of low-voltage halogen lamps.

Technical data

<b>Supply</b>	Operating voltage Current consumption KNX	21...30 V DC, made available by the bus Max. 12 mA
<b>Outputs</b>	2 load circuits  Maximum load (up to 45 °C ambient temperature)  Minimum load	Semiconductor output, dimmed via phase angle control or inverse phase control 300 W/VA per channel 500 W/VA, when just one channel is connected 2 W/VA
<b>Incoming supply</b>	2 phase inputs	The connection of different phases with a common neutral conductor is possible.
<b>Operating voltage</b>	Mains voltage $U_s$ Mains frequency Leakage loss	230 V -15/+10 %, 50/60 Hz 46...55 Hz or 57... 63 Hz Max. 4,5 W (at rated load) 500 mW in standby (outputs switched off)
<b>Connections</b>	KNX Supply and load circuit  Tightening torque	Bus connection terminal Screw terminals with universal head (PZ1) 0,2...4 mm <sup>2</sup> stranded, 2 x 0,2...2,5 mm <sup>2</sup> 0,2...6 mm <sup>2</sup> single core, 2 x 0,2...4 mm <sup>2</sup> Max. 0.8 Nm
<b>Operating and display elements</b>	Red LED and button	For assignment of the physical address
<b>Enclosure</b>	IP 20	to DIN EN 60 529
<b>Safety class</b>	II	to DIN EN 61 140
<b>Isolation category</b>	Overvoltage category Pollution degree	III to DIN EN 60664-1 2 to DIN EN 60664-1
<b>Temperature range</b>	Operation Storage Transport	- 5 °C...+45 °C -25 °C...+55 °C -25 °C...+70 °C
<b>Design</b>	Modular installation device (MDRC) Dimensions Mounting width Mounting depth	Modular installation device, ProM 90 x 72 x 64 mm (H x W x D) 4 modules at 18 mm 64.5 mm
<b>Environmental conditions</b>	Humidity	Max. 93 %, moisture condensation should be excluded
<b>Installation</b>	On 35 mm mounting rail	to DIN EN 60 715
<b>Mounting position</b>	as required	
<b>Weight</b>	0.225 kg	
<b>Housing, colour</b>	Plastic housing, grey	
<b>Approvals</b>	KNX to EN 50 090-1, -2	
<b>CE mark</b>	in accordance with the EMC guideline and low voltage guideline	

Application program	Number of communication objects	Max. number of group addresses	Max. number of associations
Dim 2f 230 V/1.0	45	254	255

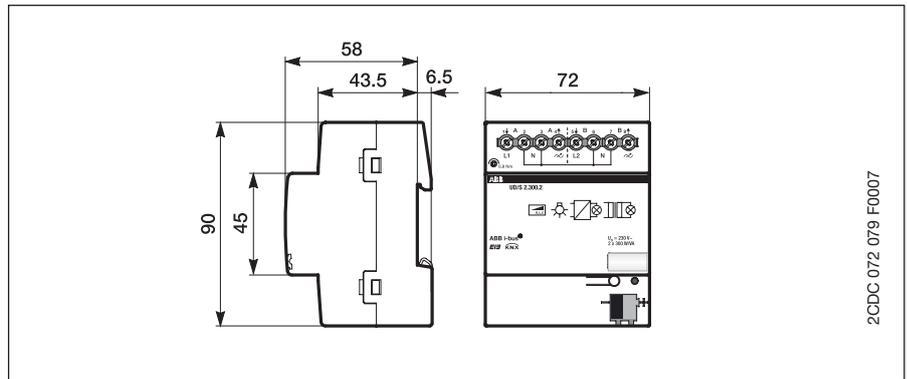
**Notes**

Refer to the product manual “Universal Dim Actuator UD/S 2.300.2” for a detailed description. The product manual can be downloaded free on the internet at [www.abb.com/KNX](http://www.abb.com/KNX).

The programming requires EIB Software Tool ETS2 V1.3 or higher. If ETS3 is used a \*.VD3 type file must be imported. The application program is available in the ETS2 / ETS3 at **ABB -> Lighting -> Dimmer**.

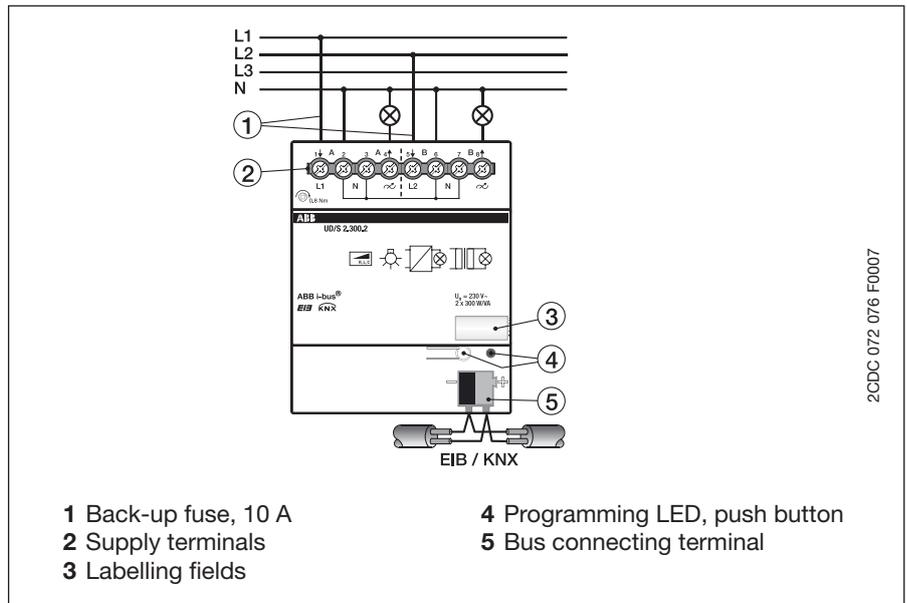
The device does not support the ETS encryption function. If you inhibit access to all devices of the project with a BA password (ETS2) or a BCU code (ETS3), it has no effect on this device. Data can still be read and programmed.

**Dimension drawing**



2CDC 072 079 F0007

**Circuit diagram**



2CDC 072 076 F0007

- 1 Back-up fuse, 10 A
- 2 Supply terminals
- 3 Labelling fields
- 4 Programming LED, push button
- 5 Bus connecting terminal

**Hinweis**

All four neutral conductor connections on the terminals 2, 3, 6 and 7 are internally interconnected to one another. If earth-leakage circuit breakers and automatic circuit breakers with a disconnected live conductor are used, it must be considered with the individual fusing of the channels.