

DATA SHEET

DRO 1U

Drive controls for on-wall/in-wall installation

Article number 09501138



[Internetlink](#)



Function

Relay and blind control devices facilitate the switching of electrical consumers separately from the system potential. Use is very flexible as a result and involves awnings and gate actuators in addition to luminaires and other single-phase consumers. To switch multiphase consumers or consumers with high loads, downstream contactors, for example, are recommended. The DRO 1U shutter control unit is a component of the Dupline installation system and permits the control of shutter motors or drives of blinds or skylights. The contacts for Up and Down movement are locked electronically and mechanically in the unit as well as by the system software. In addition, the DRO 1U is equipped with three inputs to which any electrically isolated control contacts can be connected in order that their signals can be transmitted to the Dupline net. The device is supplied by mains voltage. The DRO 1U is intended to be mounted at - for the end customer - not accessible locations, e. g. in switch socket boxes or shutter housings. The green LED on the front indicates the proper functioning of the Dupline bus.

Features

control of motor for roller shutter, skylights, awnings or other motor, three freely encodable inputs for potential-free contacts, e.g. for on-site switches or window contacts, green LED for indicating the bus signal status, power supply from mains voltage, compact design

Mounting

using side lugs on planar surfaces, without lugs in recessed sockets/boxes (deep design preferably)

Applications

The DRO 1U is used in conjunction with the Dupline bus system for triggering electric drives e.g. motors for roller blinds, awnings, skylights or entry gates. Thanks to its compact design and the connectable local in situ push-buttons it is also suitable for retro-fitting or expanding an existing Dupline bus system.

Notes

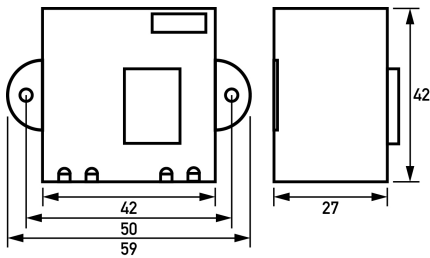
A permanent mains power supply is required in order to ensure the correct functioning of the device.

Technical Data

Technical Data	DRO 1U
Series	DRO 1U
design	Dupline
max. IF Bus system output channel	2
max. IF Bus system input channel	3
current consumption bus	24 µA
Operating voltage (AC)	230 V (210 V ... 250 V)
Current consumption (AC)	8 mA ... 12 mA
Type	Display Bus signal LED (green)
number	Semiconductor input 3
Rated current	max. 1 mA
Bounce time of push buttons	10 ms
max. Input I1 contact internal resistance	1 kOhm

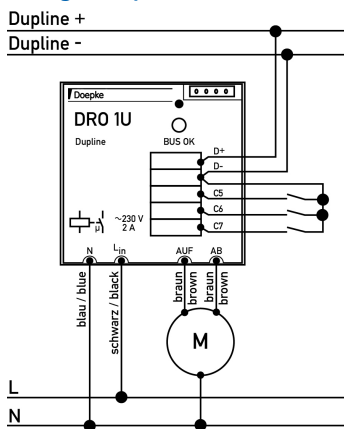
Technical Data	DRO 1U
	Load circuit
Specification	Relay
Number	2
Rated voltage (AC)	230 V
	Push wire terminal (Load circuit)
Clamping area	0.4 mm ² ... 0.8 mm ²
	Cable LiYv with ferrules (Voltage supply)
General data description	General data
Operating position	any
Ambient temperature	-10 °C ... 35 °C
Permissible humidity	max. 85 %
Housing type	in-wall housing
Mounting type	Socket/box installation
Housing material	Polyamide 6 (PA 6)
Protection class	IP20
Width	42 mm
Height	42 mm
Depth	37 mm
Width with lugs	59 mm
Installation depth	37 mm
Design requirements/Standards	EN 60669-1, EN 60669-2, EN 50090-2-2, EN 50428, EN 61000-6-1, EN 61000-6-3

Dimensions



Dimensional drawing Group view

Wiring example



Wiring diagram