Bisly

DATASHEET

UMD 2-CHANNEL PHASE-CUT DIMMER

Part No: 1301004

The UMD 2-Channel Dimmer is designed for modern lighting and shading applications. It employs phase-cut dimming (leading/trailing edge) technology and provides two independent channels, each supporting up to 220 W of connected lighting load.

The UMD communicates with the UM8 Controller via the RS-485 Modbus RTU interface and can also be controlled directly through 2 digital input signals (impulse switches). The dimmer is suitable for both active and capacitive loads. The UMD has small form factor and can be installed behind lighting switches. Ideal for: Lighting automation and shading control

Electrical Data	
Supply voltage	24VDC±25%, reverse polarity protected
Power consumption	max. 1W @24V, internal overcurrent protection at ca 1.2 A
Communication interface	RS-485 (Bisly proprietary protocol) Interfaces with Bisly UM8 Pro Controller 1-Wire Bus (Master device) Supports up to 20 x 1-Wire sensors (ex. temperature)
230VAC phase-cut dimmer	Properties: 2 fully independent channels max 220 W per channel short circuit protected Inrush current limit: 6 A (< 100 ms) overtemperature protected Software selectable trailing or leading-edge control
Inputs	2 x Digital Inputs (+24VDC tolerant, internal 2kOhm pullup to +5VDC, active low level ≤ 2V) IN1 – IN2 Designed for impulse switches
Ambient operating conditions	+5 to +40°C max. 80% RH (non condensing)
Security	Fully encrypted RS485 communication data Unique AES128 encryption keys for each device
Firmware update	Over-The-Air Update capability

Product Characteristics	
Mounting type	Electrical backbox (68 mm diameter)
Colour, finish	Black, Matte
Flammability of casing	Fire retardant according to UL94 v0

Weight & Dimensions	
Total weight	31 g
Product dimensions	49x49x18 mm

Certifications & Standards	
Environmental protection class	IP40
Markings	CE, RoHS, WEEE
Directive compliance	LVD, EMC, RoHS, WEEE

Devices must be installed and used in accordance with local regulations and Bisly installation guidelines. Incorrect installation may void warranty and cause malfunction.

Technical specifications are subject to change without prior notice as part of Bisly's continuous product development.