

# UM6D 6-CHANNEL PHASE-CUT DIMMER

Part No: 1302011



The UM6D 6-Channel Dimmer is designed for modern lighting applications. It employs phase-cut dimming (leading/trailing edge) technology and provides six independent channels, each supporting up to 240 W of connected lighting load.

The UM6D communicates with the UM8 Controller via the RS-485 Modbus RTU interface and can also be controlled directly through 6 digital input signals (impulse switches). The dimmer is suitable for both active and capacitive loads. Ideal for: Lighting automation and shading control.

Electrical Data	
<b>Supply Voltage</b>	24VDC±25%, reverse polarity protected
<b>Power Consumption</b>	max. 3W at 24V, internal overcurrent protection at ca 1.2 A
<b>Communication interface</b>	RS-485 (Bisly proprietary protocol) Interfaces with Bisly UM8 Pro Controller
<b>230VAC phase-cut dimmer</b>	Properties: <ul style="list-style-type: none"> <li>• 6 fully independent channels</li> <li>• max 240W per channel</li> <li>• short circuit protected</li> <li>• Inrush current limit: 6 A (&lt; 100 ms)</li> <li>• overtemperature protected</li> </ul> Software selectable trailing or leading-edge control
<b>Inputs</b>	6 x Digital Inputs (+24VDC tolerant, internal 2kOhm pullup to +5VDC, active low level ≤ 2V) <ul style="list-style-type: none"> <li>• IN1 – IN6</li> <li>• Designed for impulse switches</li> </ul>
<b>Ambient operating conditions</b>	+5 to +40°C max. 80% RH (non condensing)
<b>Security</b>	<ul style="list-style-type: none"> <li>• Fully encrypted RS485 communication data</li> <li>• Unique AES128 encryption keys for each device</li> </ul>
<b>Firmware update</b>	Over-The-Air Update capability

## Product Characteristics

<b>Mounting type</b>	DIN rail according to EN 60715, 35mm
<b>Colour, finish</b>	Black, Matte
<b>Flammability of casing</b>	Fire retardant according to UL94 v0

## Weight & Dimensions

<b>Total weight</b>	280g
<b>Product dimensions</b>	161 x 90 x 58 mm

## Certifications & Standards

<b>Environmental protection class</b>	IP30
<b>Markings</b>	CE, RoHS, WEEE
<b>Directive compliance</b>	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.