

# Datasheet

## Ethernet controller UM8

Part No: UM8



Bisly UM8 is an 10/100Mbps Ethernet controller with eight power relay outputs and multiple control inputs / outputs. UM8 is dedicated to working in Bisly building automation infrastructure.

### Electrical Data

Supply voltage	24VDC±25%, reverse polarity protected
Power consumption	max. 3W @24V, internal overcurrent protection at ca 0.7A
Power sourcing	5V OUT, max 100mA, short protected, shorting will cause device stop
Security	<ul style="list-style-type: none"> <li>Fully encrypted RS485 communication data</li> <li>Unique AES128 encryption keys for each device</li> <li>Remotely upgradable software</li> </ul>
Digital / analog inputs	<p>8 inputs, software configurable as DIN or AIN</p> <p>Digital input operation:</p> <ul style="list-style-type: none"> <li>internal 2kOhm pullup to +5V</li> <li>active low level ≤2V</li> <li>input low pass filter τ=150μs</li> <li>24VDC tolerant operation</li> <li>≥-5V reverse voltage protected</li> <li>8kV ESD (EN 61000-4-2) protected</li> </ul> <p>Analog input operation:</p> <ul style="list-style-type: none"> <li>12-bit resolution</li> <li>VIN full scale 3.3V</li> <li>internal 2kOhm pullup to +5V</li> <li>input low pass filter τ=150μs</li> <li>24VDC tolerant operation</li> <li>≥-5V reverse voltage protected</li> <li>8kV ESD (EN 61000-4-2) protected</li> </ul>
Internal temperature sensor	Accuracy ±2°C
Outputs	<ul style="list-style-type: none"> <li>4x SPST relay, 250VAC 16A active load, ≤1kV RMS I/O insulation voltage</li> <li>4x SPDT relay, 250VAC 16A active load, ≤1kV RMS I/O insulation voltage</li> <li>4x Digital output, open collector, max 24VDC 300mA continuous, 2kV ESD (EN 61000-4-2) protected</li> </ul>

Interfaces	<ul style="list-style-type: none"> <li>• 10/100Mbps TP Ethernet, IPv4, Bisly system compliant</li> <li>• 3x RS485, 38,4 kbps, <math>\pm 50V</math> overvoltage and 4kV ESD (EN 61000-4-2) protected, without internal bus termination</li> <li>• 1x 1-Wire master, 16,3 kbps, 5V bus, phantom power capable, 4kV ESD (EN 61000-4-2) protected</li> </ul>
Ambient operating temperature	-10 ... 50°C
Humidity	max. 90% r.H. (non condensing)

## Product Characteristics

Mounting type	DIN rail according to EN 60715, 35mm
Colours	Black
Finish	Matte
Flammability of casing	Fire retardant according to UL94 v0

## Weight & Dimensions

Net weight	197g
Total weight	338g
Product dimensions	136x120x63mm

## Certifications & Standards

Environmental protection class	IP20
Standards compliance	EN 63044-1, EN 63044-3, EN 63044-5

Installation must be carried out by a qualified electrician in accordance with the relevant regulations.

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info@bisly.com  
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