Datasheet

Ethernet controller UM8
Part No: UM8

Bisly UM8 is an 10/100 Mbps 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	24 VDC ± 25 %, reverse polarity protected
Power consumption	max. 3 W @ 24 V, internal overcurrent protection at ~0.7 A
Power sourcing	5 V OUT, max 100 mA, short circuit protected
Security	• Encrypted RS485 communication • Unique AES128 encryption keys for each device • Authorized remote software upgrade
Digital and analog inputs	8 inputs, software configurable as DIN or AIN • Internal 2 kΩ pullups to +3.3 V for IN5, IN6 • Internal 2 kΩ pullups +5 V for other inputs • 24 VDC tolerant operation • ≥ -5 V reverse voltage protection • 8 kV ESD (EN 61000-4-2) input protection • Input low pass filter τ = 150 µs DIN digital input operation • Active low level ≤ 2 V AIN analog input operation • 12-bit resolution • AIN full scale 3.3 V
Internal temperature sensor	Accuracy ±2°C
Outputs	• 4x 10A active load 250 VAC SPST relays * • 4x 10A active load 250 VAC SPDT relays * • 4x digital outputs, open collector, max 24 VDC, 300 mA continuous, 2 kV ESD (EN 61000-4-2) protected, outputs can be software configured to source 12 VDC through 3.4kOhm passive limiter (OUT1-2, OUT3-4) * Relays are max 35 A inrush current tolerant; controller total load current max 48 A @ 35°C ambient temperature.

Interfaces	• 10/100Mbps TP Ethernet, IPv4, Bisly system compliant
	• 3x RS485, 38.4 kbps, ±50 V overvoltage and 4 kV ESD (EN 61000-4-2) protected, without internal bus termination
	• 1x 1-Wire master, 16.3 kbps, 5 V bus, phantom power capable, 4 kV ESD (EN 61000-4-2) protected
Ambient operating temperature	-10 ... 50°C
Humidity	max. 90 % r.H. (non-condensing)

Product Characteristics

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

Weight & Dimensions

Net weight	197 g
Total weight	338 g
Product dimensions	136 x 120 x 63 mm

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.