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| 21700150 | DATA SHEET |  |
| Valid from: 25.11.2022 | ETHERLINE® GUARD PM03T | |

Description

- ETHERLINE® GUARD enables lifetime monitoring of data lines (100Base-TX) with focus on dynamic applications
- Feedback of the expected service life via status LED
- Alarm limit value individually adjustable (life time 99 - 50 %)
- Compact design, also suitable for use in decentralized control cabinets (mounting on DIN rail possible)
- Suitable for integration into IIoT structures via MQTT interface (including status/data evaluation, settings, updates)



General characteristics

Interfaces & Buttons

LAN: 1x RJ45: 10/100BaseTX, IEEE802.3u, HTTPS, MQTT V3.1.1

DATA: 2x RJ45: 100BaseTX, IEEE802.3u

SET-Button: Setting of various functions

SD-Slot: 1x microSDHC (FAT32, max. 32 GByte)

Status indicators

LEDs: PWR (Power), STATUS (Status), CON (Connect)

Temperature range

Ambient temp.: -25°C to +65°C (-13°F to 149°F)
transport - and storage temp.: -40°C to +85°C (-40°F to 185°F)

Relative humidity (max.)

95 % (non-condensing)

Pollution degree

2

MTBF (mean time between failures)

10,9 years @ MIL-HDBK-217F

Minimum length of the monitored line

>= 2 m

Variation

| Article | Description | Type |
|----------|-----------------------|------|
| 21700150 | ETHERLINE GUARD PM03T | LAN |

Power requirements

Connection

5-pole terminal block: GND, VCC, FE, Q1, Q2

Reverse polarity protection

present

Input voltage

24 V DC (18-30V DC, SELV and limited energy circuit)

Power Consumption (max.)

1.92 W

Input current (max.) @ +24 V DC

75 mA (without load on Q1, Q2)

Outputs (Q1 / Q2)


Q1: Push-Pull (NO) / Q2: Push-Pull (PWM)

Max. current: 0.2 A

overload voltage protection: present

short circuit protection: present

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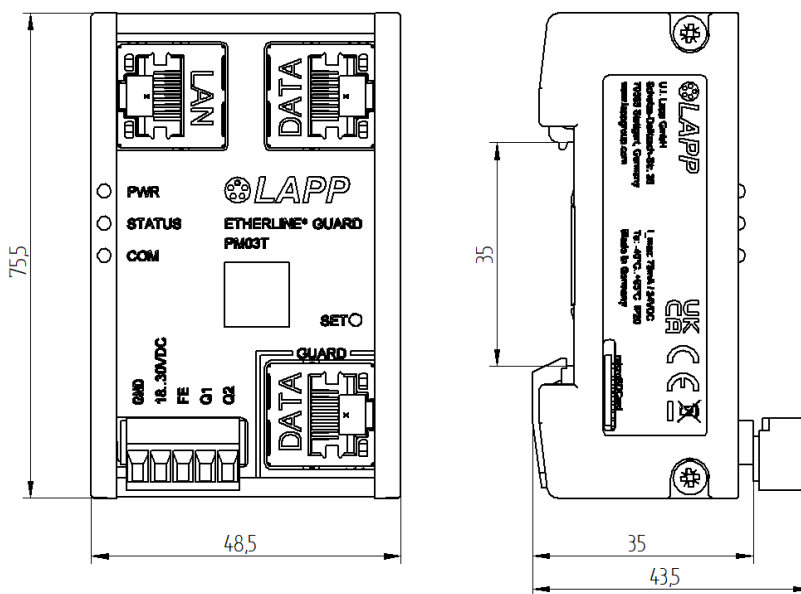
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Physical properties

| | |
|--------------------------------------|--|
| IP class (acc. EN 60529) | IP20 |
| Protection class (acc. DIN EN 61140) | III |
| Weight | 0.11 kg |
| Installation | Mounting on DIN-rail (acc. DIN EN 60715) |

Technical drawing

Dimensional drawing



Standards and approvals

| | |
|-----------|---|
| EMC | DIN EN 61000-6-2 DIN EN 61000-6-4 |
| Vibration | acc. DIN EN 60068-2-6 |
| Shock | acc. DIN EN 60068-2-27 |
| Free fall | acc. DIN EN 60068-2-31 |
| Approvals | CE, UKCA UL (pending) FCC (pending) |

Application range

In 100Base-TX Ethernet-based networks in the field of automation, where transmission that is insensitive to interference must be ensured.

Note

Photographs are not to scale and do not represent detailed images of the respective products.

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