


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

Creator: THLE3/PDP Released: IVSE1/PDP	Document: DB21700150EN Version: 01	Page 1 of 2
---	---------------------------------------	-------------

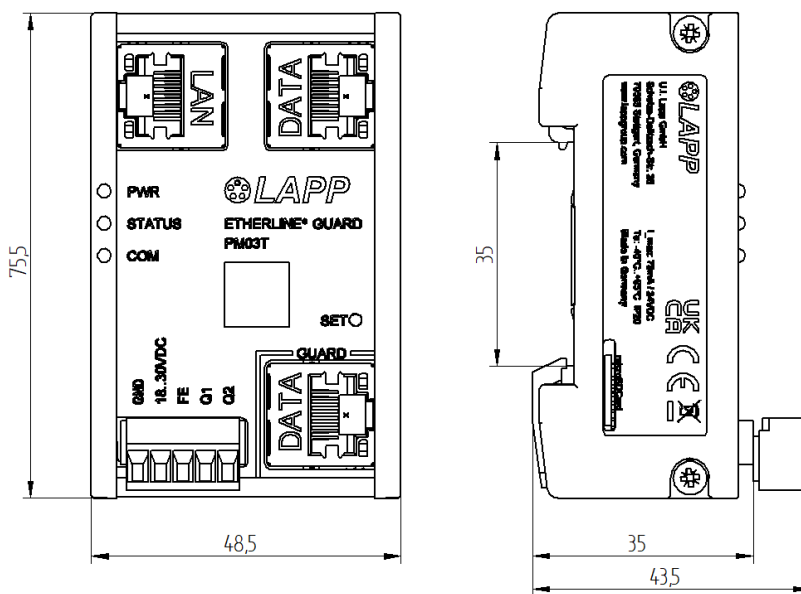
21700150	DATA SHEET	
Valid from: 25.11.2022	ETHERLINE® GUARD PM03T	

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.

Creator: THLE3/PDP Released: IVSE1/PDP	Document: DB21700150EN Version: 01	Page 2 of 2
---	---------------------------------------	-------------