

LAN-Check



DE 02

GB 08

NL 14

DK 20

FR 26

ES 32

IT 38

PL 44

FI 50

PT 56

SE 62

NO 68

TR 74

RU

UA

CZ

EE

LV

LT

RO

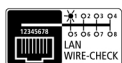
BG

GR

SI

HU

SK





Read the operating instructions and the enclosed brochure „Guarantee and additional notices“ completely. Follow the instructions they contain. Safely keep these documents for future reference.

Function / Application

Practical LAN tester for checking twisted pair cables for short-circuits, crossings, polarity reversal and breaks.

Safety instructions

- The device must only be used in accordance with its intended purpose and within the scope of the specifications.
- Isolate the device from all measuring circuits before opening the battery compartment cover.
- The device is not suitable for measurement whilst under voltage. Therefore, always make sure the measuring circuit is at zero voltage. Appropriate measures must be taken to ensure a zero-voltage state.
- Check that all high-voltage capacitors are discharged.
- The sender introduces the measuring voltage into the lines to be tested. This may impair or damage sensitive electronic equipment (e.g. network cards). Therefore, please make sure that any lines to be tested which belong to sensitive electronic equipment are isolated before measurement.
- Do not use the device in environments containing explosive gases or vapour.
- Protect the device against contamination and damage, and make sure it is stored in a dry location.
- Do not expose the device to mechanical stress, extreme temperatures or significant vibration.
- The structure of the device must not be modified in any way.
- The measuring tools and accessories are not toys. Keep out of reach of children.

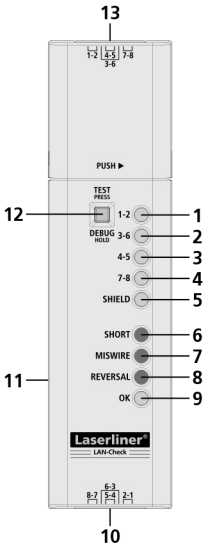
Symbols



Warning about hazardous electrical voltage:
Unprotected live components inside the device housing are capable of posing a risk of electric shock.



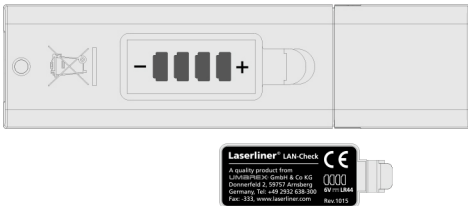
Danger area warning.



- 1 LED twisted pair 1 - 2
- 2 LED twisted pair 3 - 6
- 3 LED twisted pair 4 - 5
- 4 LED twisted pair 7 - 8
- 5 LED Shield (shielded twisted pair cable)
- 6 LED „Short“
- 7 LED „Miswire“
- 8 LED „Reversal“
- 9 LED „OK“
- 10 RJ45 cable connector (main device)
- 11 Battery compartment (rear)
- 12 „TEST“ (press) / „DEBUG“ (hold) button
- 13 RJ45 cable connector (cable terminal)

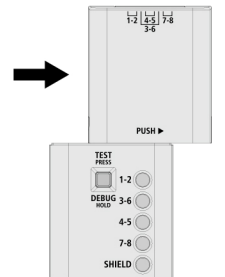
1 Inserting batteries

Open the battery compartment and insert batteries according to the symbols. Be sure to pay attention to polarity.



2 Remove cable terminal

The cable terminal can be disconnected from the main device before testing.



3 Wiring fault

3.1 Short (LED 6)

There is a short-circuit between pin 2 and 3.



3.2 Miswire (LED 7)

Pins 1 to 4 are not connected correctly.



The wiring fault **miswire** indicates that the pins of **two** twisted pairs are connected incorrectly.

3.3 Reversal (LED 8)

Polarity of pin 1 and 2 connection reversed.



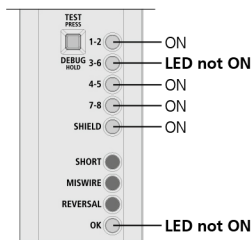
The wiring fault **reversal** indicates that the pins of **one** twisted pair is connected incorrectly.

3.4 Break

TEST mode: The corresponding LEDs will not light if there is a cable break in one or several twisted pairs.

Example

There is a break in twisted pair 3 - 6.



DEBUG mode: In DEBUG mode the twisted pairs are individually checked one after the other. Initially, the LED flashes briefly, then lights constantly while the „OK“ LED is also ON.

There is a cable break if a twisted pair does not briefly flash and is not confirmed by the LED lighting constantly with the „OK“ LED also ON.



Always check the condition of the batteries before using the tester. The LEDs will light weakly if the battery charge is low. False measurements are possible.

4 TEST mode

1. Connect cable to the main device and cable connector
2. Briefly press „TEST / DEBUG“ button (12)

During each measurement the LEDs initially light up briefly one after the other.

Positive test

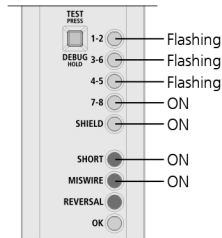
The LEDs of twisted pairs (1 - 4) as well as the „OK“ LED (9) will light if there is no wiring fault or break.

Negative test /wiring fault

The LED „Short“ (6), LED „Miswire“ (7) and/or LED „Reversal“ (8), will light accordingly if there is one or several wiring faults. The LED of the faulty twisted pairs will flash simultaneously.

Example

The twisted pairs 3 - 6 of the cable are reversed and there is a short-circuit in the twisted pairs 1 - 2 and 4 - 5.



Negative test / break

The corresponding LEDs will not light if there is a cable break in one or several twisted pairs. (See „Wiring faults“)

5 DEBUG mode

1. Connect cable to the main device and cable connector
2. Press and hold „TEST / DEBUG“ button (12)

During each measurement the LEDs initially light up briefly one after the other. The twisted pairs are then checked one after the other.

Positive test

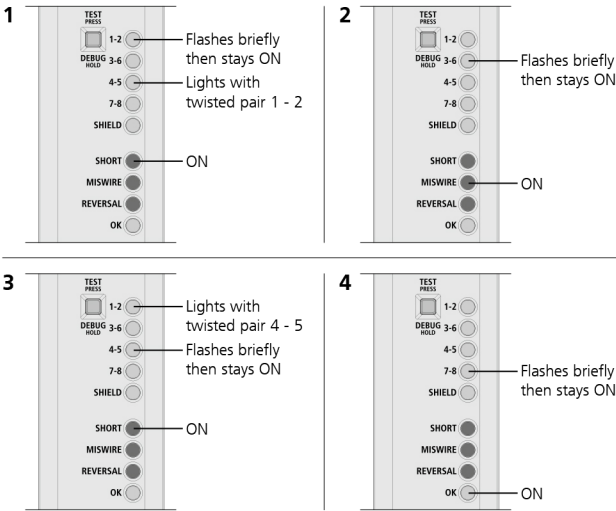
If the twisted pair to be tested is wired correctly, the corresponding LED will briefly flash, then light together with the „OK“ LED and then go out.

Negative test /wiring fault

If the twisted pair to be tested is wired incorrectly, initially the corresponding LED will briefly flash. The LED will then light together with the LEDs of the twisted pairs associated with the fault. At the same time, the LED „Short“ (6), LED „Miswire“ (7) or the LED „Reversal“ (8) will also light.

Example

The twisted pairs 3 - 6 of the cable are reversed and there is a short-circuit in the twisted pairs 1 - 2 and 4 - 5.



Negative test / break

The corresponding LEDs will not light if there is a cable break in one or several twisted pairs. (See „Wiring faults“)

6 LED „SHIELD“

The LED „SHIELD“ lighting up indicates that the cable is an STP cable (shielded twisted pair cable). The LED „SHIELD“ not lighting up indicates that the cable is an UTP cable (unshielded twisted pair cable) or an STP cable (shielded twisted pair cable) with a break in the shield conductor.

Technical data	
Max. cable length	300 m
Power supply	4x LR44 button cell, 1.5 V
Storage temperature	-10°C ... 70°C
Operating temperature	0°C ... 40°C
Dimensions (W x H x D)	28 x 106 x 25 mm
Weight (incl. batteries)	52 g

Subject to technical changes without notice. 01.16

EU directives and disposal

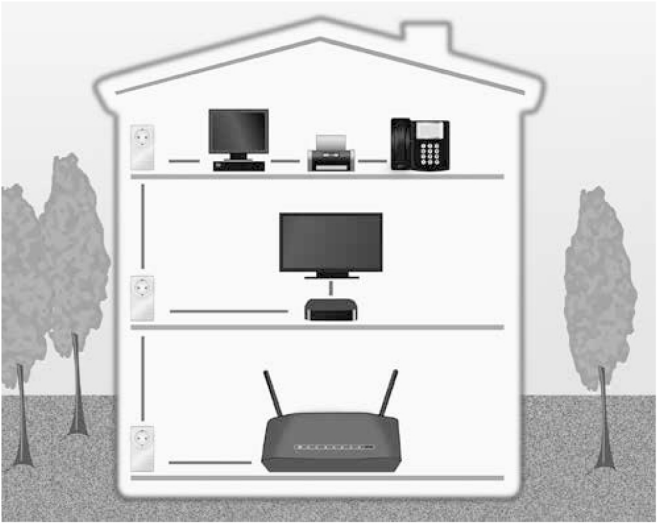
This device complies with all necessary standards for the free movement of goods within the EU.

This product is an electric device and must be collected separately for disposal according to the European Directive on waste electrical and electronic equipment.

Further safety and supplementary notices at:

www.laserliner.com/info





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