

Lovato Electric TMLS

Lovato Electric TMLS Staircase Time Relay User Manual

Model: TMLS

INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of the Lovato Electric TMLS Staircase Time Relay. This modular time relay is designed for use in switchboards and features selectable time ranges, LED indication, and DIN rail mounting.

Please read this manual thoroughly before attempting to install or operate the device. Keep this manual for future reference.

SAFETY INFORMATION

WARNING: Risk of electric shock. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing, servicing, or removing the device.
- Ensure all wiring complies with local and national electrical codes.
- Do not operate the device if it appears damaged.
- Protect the device from moisture, dust, and extreme temperatures.

PRODUCT OVERVIEW



Figure 1: Lovato Electric TMLS Staircase Time Relay. This image shows the front view of the modular time relay, highlighting the time adjustment dial, the function selector switch, and the LED indicator. The top and bottom screw terminals for electrical connections are also visible.

The Lovato Electric TMLS is a compact, modular time relay designed for staircase lighting control. Its features include:

- **Modular Design:** Suitable for installation in standard modular-slot switchboards on a 35mm DIN rail.
- **Adjustable Time Range:** A front-mounted dial allows selection of time delays from 0.5 to 20 minutes.
- **LED Indication:** An integrated LED provides visual feedback on the relay's operational status.
- **Function Selector:** A switch to select between continuous ON and timed operation.
- **Screw Terminals:** Secure and reliable electrical connections.

INSTALLATION (SETUP)

The TMLS time relay is designed for mounting on a 35mm DIN rail within an electrical enclosure or switchboard.

Steps for Installation:

1. **Power Disconnection:** Before beginning any installation, ensure that the main power supply to the circuit is completely disconnected and locked out. Verify with a voltage tester.
2. **Mounting:** Clip the TMLS relay onto a standard 35mm DIN rail. Ensure it is securely seated.
3. **Wiring:** Connect the auxiliary supply voltage (220-240Vac) to the designated screw terminals. Refer to the wiring diagram on the device or its packaging for specific terminal assignments. Connect the load (e.g., staircase lights) to the output terminals. Ensure all connections are tight and secure.
4. **Verification:** Double-check all wiring connections for correctness and security before restoring power.
5. **Power Restoration:** Restore power to the circuit.

Note: The specific wiring diagram for your application may vary. Always consult the diagram printed on the device or its packaging for precise connection points.

OPERATING INSTRUCTIONS

The Lovato Electric TMLS relay offers simple operation for controlling staircase lighting.

Time Setting:

- Locate the red rotary dial on the front of the unit, labeled "Time".
- Rotate the dial to select the desired time delay for the staircase lights to remain on after activation. The available range is from 0.5 minutes to 20 minutes.

Function Selection:

- Below the time dial, there is an orange slide switch. This switch controls the operating mode.
- Slide the switch to the **timed mode** position (often indicated by a clock or timer symbol) for normal staircase operation, where the lights turn off after the set time.
- Slide the switch to the **continuous ON mode** position (often indicated by a light bulb symbol) to keep the lights continuously on, bypassing the timer function. This is useful for extended periods of illumination or maintenance.

LED Indication:

The green LED indicator on the front panel provides status feedback:

- **LED ON:** Indicates the relay is active and the load (lights) is powered.
- **LED OFF:** Indicates the relay is inactive and the load is off.

MAINTENANCE

The Lovato Electric TMLS Staircase Time Relay is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance and longevity.

- **Cleaning:** Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Connection Inspection:** Periodically (e.g., annually), with power disconnected, inspect the screw terminals to ensure all wiring connections remain tight and secure. Loose connections can lead to overheating or intermittent operation.
- **Environmental Check:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent premature failure.

Note: There are no user-serviceable parts inside the relay. Do not attempt to open the casing.

TROUBLESHOOTING

If you encounter issues with your TMLS Staircase Time Relay, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Device not powering on / LED off	No auxiliary supply voltage; Loose wiring connections; Blown fuse/tripped breaker.	Check power supply to the circuit; Verify all wiring connections are secure; Check and reset circuit breaker or replace fuse.
Lights stay on continuously in timed mode	Function selector switch is in continuous ON mode; Faulty relay.	Ensure the function selector switch is set to the timed mode position; If issue persists, the unit may require replacement.
Lights turn off too quickly/slowly	Incorrect time setting; Faulty timing mechanism.	Adjust the time setting dial to the desired duration; If the time is inaccurate despite correct setting, the unit may require replacement.
Intermittent operation	Loose wiring connections; Unstable power supply.	Check and tighten all wiring connections; Consult an electrician to check power supply stability.

If the problem persists after attempting these solutions, contact a qualified electrician or the manufacturer's support.

SPECIFICATIONS

Parameter	Value
Model Number	TMLS
Rated Auxiliary Supply Voltage	220-240Vac
Time of Scale Range	0.5 - 20 minutes
Mounting	35mm DIN rail
Indication	LED
Terminals	Screw terminals

Parameter	Value
Package Dimensions	3.7 x 2.64 x 0.87 inches
Weight	6 Pounds
Manufacturer	Lovato Electric

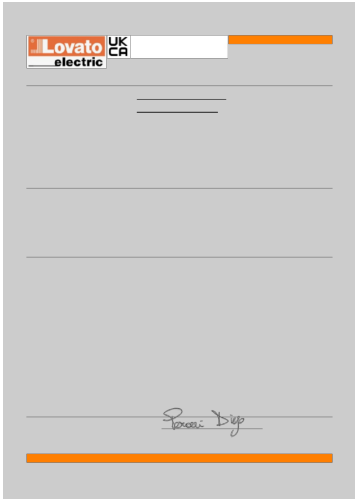
WARRANTY AND SUPPORT

For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact Lovato Electric directly. Warranty periods and coverage may vary by region and retailer.

For technical support, product inquiries, or to report a faulty device, please contact your authorized Lovato Electric distributor or visit the official Lovato Electric website for contact information.

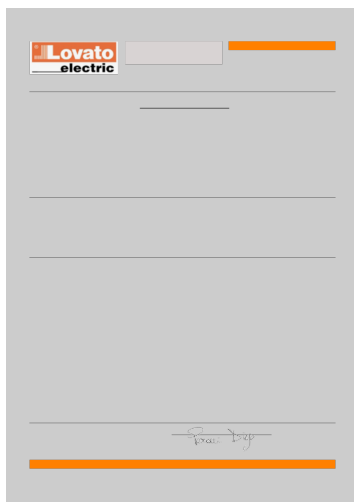
Always provide the model number (TMLs) and any relevant purchase details when seeking support.

Documents - Lovato Electric – TMLS



[pdf] Declaration of Conformity Catalog

Lovato Document Xojo OM UKCA declaration of conformity UKCA110 Electric product TMD catalogue
lovatoelectric gl en Product GetDocument doc Certifications CeDeclarations ||| ||| DECLARATION
LOVATO ELECTRIC S.P.A. OF CONFORMITY Via Don E. Mazza 12, 24020 Gorle BG , Italy info
lovatoelectric.com In according with UK Governement guidance Tel. 39 035 4282111 Declaration Nr.
UKCA110 Name of the manucturer: LOVATO ELECTR
DECLARATION LOVATO ELECTRIC S.P.A. OF CONFORMITY Via Don E. Mazza
12, 24020 Gorle BG , Italy info I ... manucaturer Object of the declaration : Electronic
time relays TMP, TMPL, TMM1, TMM2, TMD, TMST, **TMLS** The object of the
declaration described above is in conformity with the relevant UK Statutory ...
lang:en score:21 filesize: 48.64 K page_count: 1 document date: 2022-02-07



[\[pdf\]](#) Decleration of Conformity Catalog

Lovato Document Xojjo OM EU declaration of conformity EU110 2021 11 Electric product TMD catalogue

lovatoelectric gl en Product GetDocument doc Certifications CeDeclarations ||| ||| EU DECLARATION

LOVATO ELECTRIC S.P.A. OF CONFORMITY 1 Via Don E. Mazza 12, 24020 Gorle BG , Italy info

lovatoelectric.com According to EN ISO/IEC17050-1 2 Tel. 39 035 4282111 Declaration Nr. EU110 Name

of the manufacturer 3 : LOVATO ELECTRIC

EU DECLARATION LOVATO ELECTRIC S.P.A. OF CONFORMITY 1 Via Don E.

Mazza 12, 24020 Gorle BG , Italy ... c ES Rel temporizador electrónico DE

Elektronische Zeitrelais TMP, TMPL, TMM1, TMM2, TMD, TMST, **TMLS** The object of the declaration described above is in conformity with the relevant Community har...

lang:en score:19 filesize: 58.91 K page_count: 2 document date: 2021-11-12



[\[pdf\]](#) Accessories

Przełącznik kontroli poziomu cieczy funkcje opróżniania lub napełniania regulacja czułości zasilanie 24
240VAC DC LVM25240 LOVATO TIM SA 0002 00000 95510 4 tim pl fileuploader d 1 file GLOWNA 000
00 955 10 |||

NKCR.E93601 - Auxiliary Devices <http://database.ul.com/cgi->

bin/XYV/template/LISEXT/1FRAME/showpa... 8, BTN110, BTN220, BTN380,

BTN440, BTN48, BTM1220, BTM160, BTM220, BTM60, DRPL220, DRPL60,

TMD, **TMLS**, TMM1, TMM2, TMP, TMPA440, TMPL, TMST, TMSTA440 Investigated

to ANSI/UL 60947-1 and ANSI/UL 609...

lang:en score:9 filesize: 2.2 M page count: 6 document date: 0000-00-00