

TRFL

TRAFFIC LIGHT



Before operating the device, be sure to read this user manual carefully. Follow the steps described in the installation, electrical connection, and initial startup sections with attention. After completing these steps, the product owner/user must keep this manual in a known and easily accessible location for the entire service life of the product.



- Store the product in a dry environment. Otherwise, malfunctions may occur.
- In battery- or accumulator-powered products, batteries and accumulators are not covered under warranty. Similarly, failures caused by battery discharge or leakage in products that have exceeded their shelf life are not covered under warranty.
- All service and repair operations must be carried out exclusively by Kontal Elektronik technical service. The product must not be tampered with by unauthorized personnel.
- The operating voltage of each product is indicated on the label. Do not supply the device with a voltage different from the specified value.



- ✓ Failure to comply with the above-mentioned conditions may result in fire, serious personal injury, or damage to the product or the structure in which it is installed. In such cases caused by user negligence or misuse, **Kontal Elektronik San. ve Tic. Ltd. Şti.** assumes no responsibility.
- ✓ This symbol will be used to highlight important notes in the following sections.



- ✓ Do not touch the power supply terminals of the device with bare hands.
- ✓ This symbol will be used to indicate warnings related to voltage in the following sections.



- ✓ This symbol on the label indicates that the device operates with a DC supply voltage.



- ✓ This symbol on the label indicates that the device is equipped with reinforced insulation.



- ✓ This symbol on the product or its packaging indicates that the product must not be disposed of as household waste. Instead, it should be delivered to designated collection points for the recycling of electrical and electronic equipment. Improper disposal or destruction of the product may have adverse effects on the environment and human health.



- ✓ This document and its revisions are the legal property and responsibility of **KONTAL ELEKTRONİK SAN. VE TİC. LTD. ŞTİ.** Any unauthorized modification or alteration is strictly prohibited.



- ✓ Ensure that the system is properly grounded for the device to operate reliably.

1. DEFINITION

TRFL is a high-performance and durable signal light, specially designed for access control systems and industrial guidance applications. With its IP65 certification, it provides superior protection against dust, moisture, and water splashes, making it highly suitable for outdoor use. The TRFL features a robust and aesthetic structure with a housing made of ABS and aluminum, while the front light surface is manufactured from UV-resistant acrylic to ensure long-lasting clarity and even light distribution. Powered by LED technology, it offers high visibility with low energy consumption. TRFL is available in three different configurations to suit various applications: single-color (with customizable color upon request), dual-color, and tri-color models. Although designed in the form of a traffic light, TRFL stands out as a reliable and effective visual signaling solution for controlled access points such as turnstiles, factory floor guidance, parking systems, and security barriers.

1.1 BOX CONTENTS

The box contents of the TRFL Traffic Light are listed below:

1x TRFL(TRFL1 / TRFL2 / TRFL3)	1x TRFL User Manual
----------------------------------	---------------------

**In custom orders, box contents may vary depending on the project requirements or customer specifications.*

2. TECHNICAL SPECIFICATIONS

Model	TRFL1	TRFL2	TRFL3
Product Code	K194-01	K195-01	K196-01
Working Voltage	24V DC		
Working Current	370mA	740mA	1.2A
Working Temperature	-40 °C +50 °C		
Power	9W	18W	27W
Number Of Modules	1	2	3
Reflector Diameter	100mm		
IP Rating	IP65		
Color	Red/Yellow/Green*** (Single Color Option)	Red/Green (2-Color Option)	Red/Yellow/Green (3-Color Option)
Mounting Type	Wall Mounting		
Light Surface	UV Acrylic		
Weight	900gr	1470gr	1965gr
Dimensions	175 x 210 x 90 mm	175 x 360 x 90 mm	175 x 510 x 90 mm

**** In the TRFL1 (single-module) model, the color selection is determined according to customer preference.*

3. WIRING DIAGRAM

The wiring diagram for the TRFL Traffic Light is shown below.

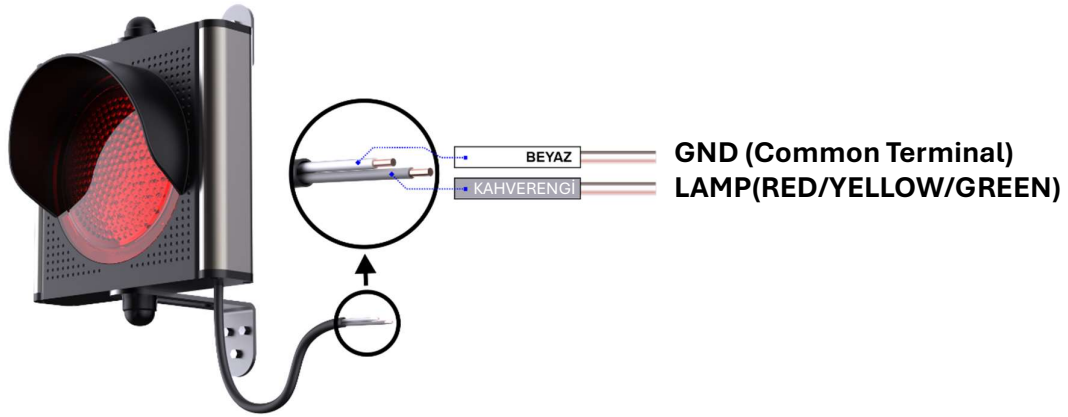


Figure 3.1 – TRFL1 Wiring Diagram

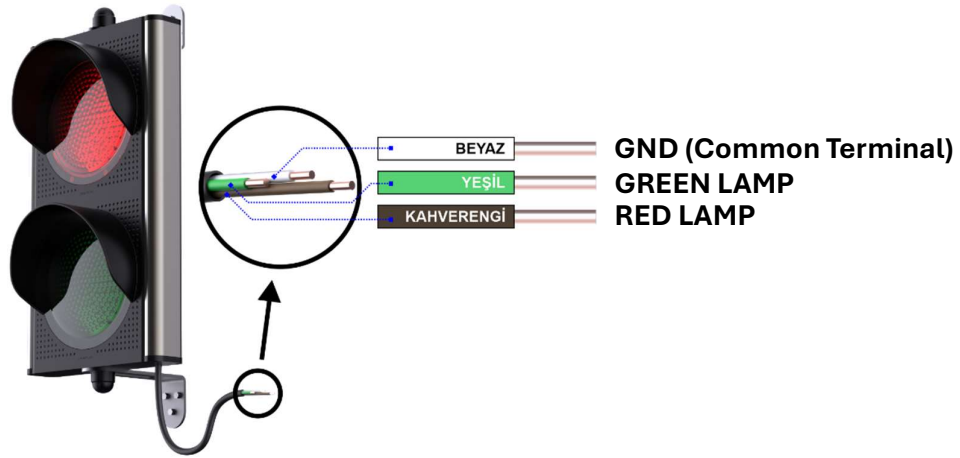


Figure 3.2 – TRFL2 Wiring Diagram

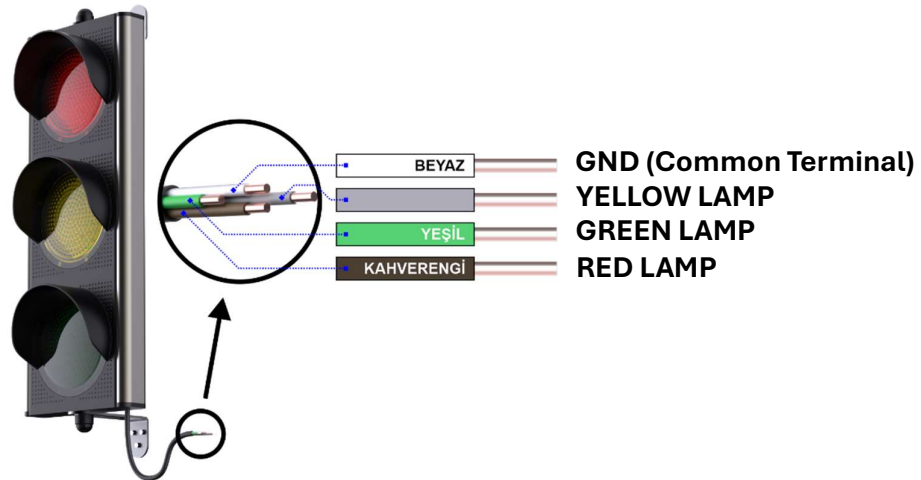


Figure 3.3 – TRFL3 Wiring Diagram

4. INSTALLATION



Figure 4.1 – Wall Mounting of TRFL

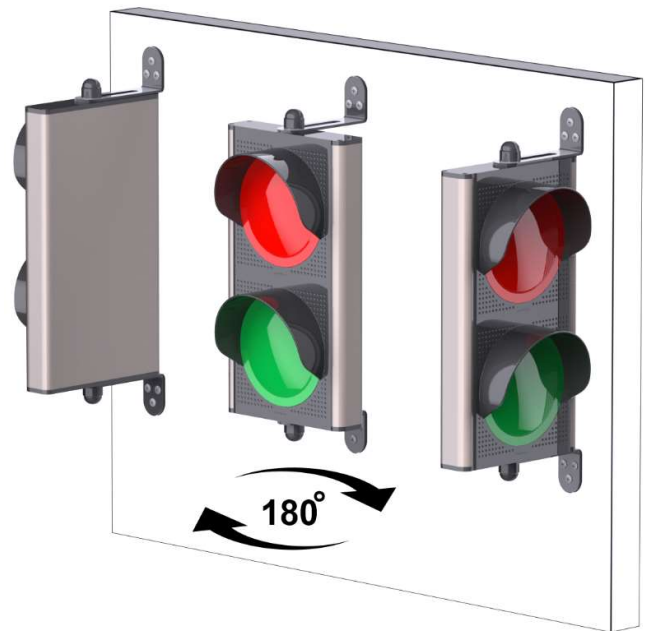


Figure 4.2 – TRFL Angle Adjustment

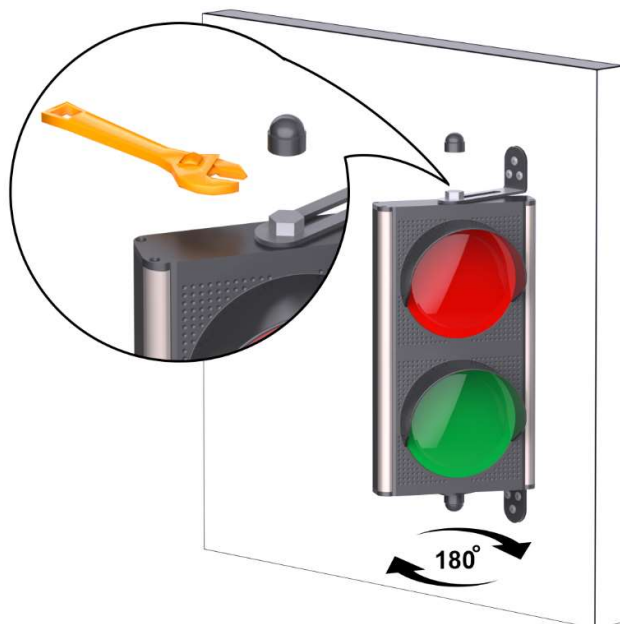
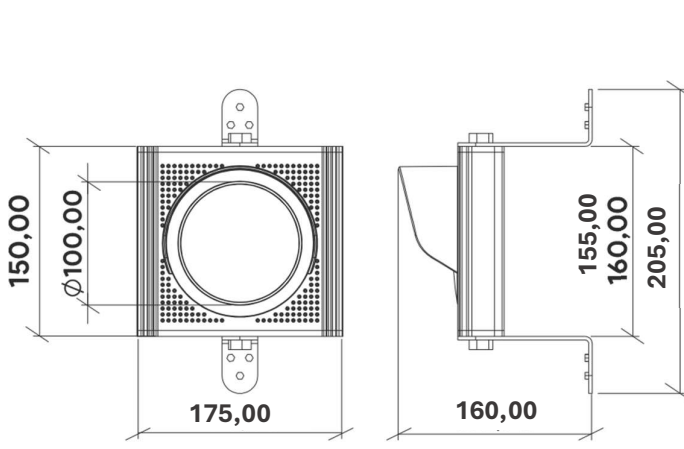
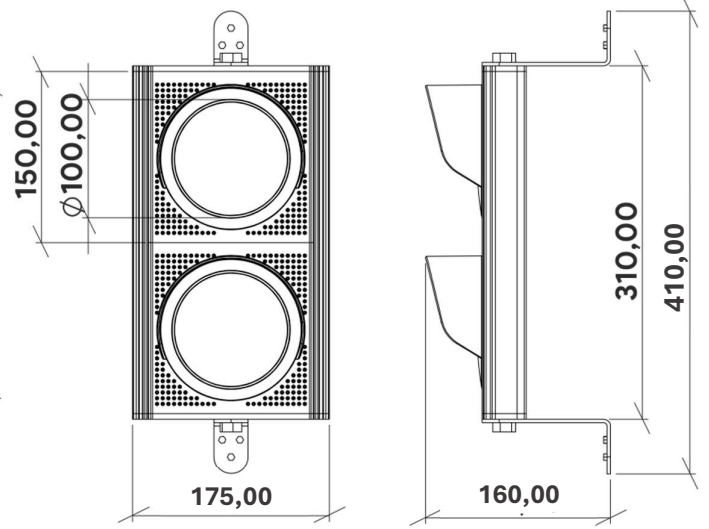


Figure 4.3 – TRFL Fastening and Nut Covering



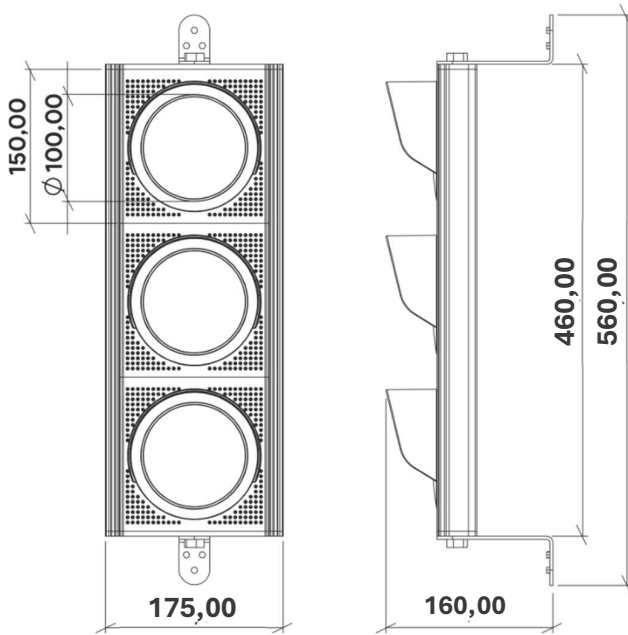
Unit = mm

Figure 4.4 – TRFL1 Dimensions



Unit = mm

Figure 4.5 – TRFL2 Dimensions



Unit = mm

Figure 4.6 – TRFL3 Dimensions



Manufacturer / Authorized Service

Kontal Elektronik San. Ve Tic. Ltd. Şti.

Çorapçılar Sanayi Sitesi A Blok NO: 1-2

İkitelli OSB İSTANBUL / TURKEY

+90 212 485 61 11

info@kontal.com.tr

www.kontal.com