ISO 9001: 2008
EN ISO 14001: 2004

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SECURITY SYSTEMS
Traffic Equipment

USER MANUAL
&
INSTALLATION INSTRUCTIONS

POWER LED TRAFFIC LIGHT
TRL200

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TRL 200 Power Led Traffic Light

POWER	: 220 V, 50/60 Hz +/-%10
LED (TYPE / COLOR)	: Power LED / Red and Green
REFLECTOR DIAMETER	: 200 mm
MATERIAL	: Polycarbonate (%100 PC)
HOUSING COLOR	: Black / Grey-Black / Orange
LIGHT DISTRIBUTION	: Fresnel Lens
POWER FACTOR	: PF>0.9,THD<%20
PHANTOM CLASS	: 5
POWER CONSUMPTION	: 9 Watt / Module
PROCESS	: Injection Moulding
ENVIRONMENTAL PROTECTION	: IP 65
SUNSHIELD	: Available, to increase visibility
POST	: Steel, Ø101.6 mm diameter, Electrostatic powder coated, 4xM12 Steel Anchors for ground fixing
REFLECTOR SURFACE	: Shiny coat

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INSTALLATION INSTRUCTION

SYSTEM MONTAGE

Module – Cover Montage

Module is installed above the cover on its connection parts by screwing with connection apparatus.

Cover – Body Montage

The right top and down peak point of Module installed cover connects to the body through the suitable holes on top and down of the body. After this application, the cover is closed with the two nail – locks on the edge of the body.

Visor – Cover Montage

The protecting sides of the module montage space on the cover is also visor montage area. To set up the visor, there are 3 rooms on this area. Visor connection mechanism with the suitable shape is put into these 3 rooms.

Console – Body Montage

Consoles which are used for mounting on poles are connected on both top and down surfaces of the body. Use M8x60.

Signal head - Pole Connection

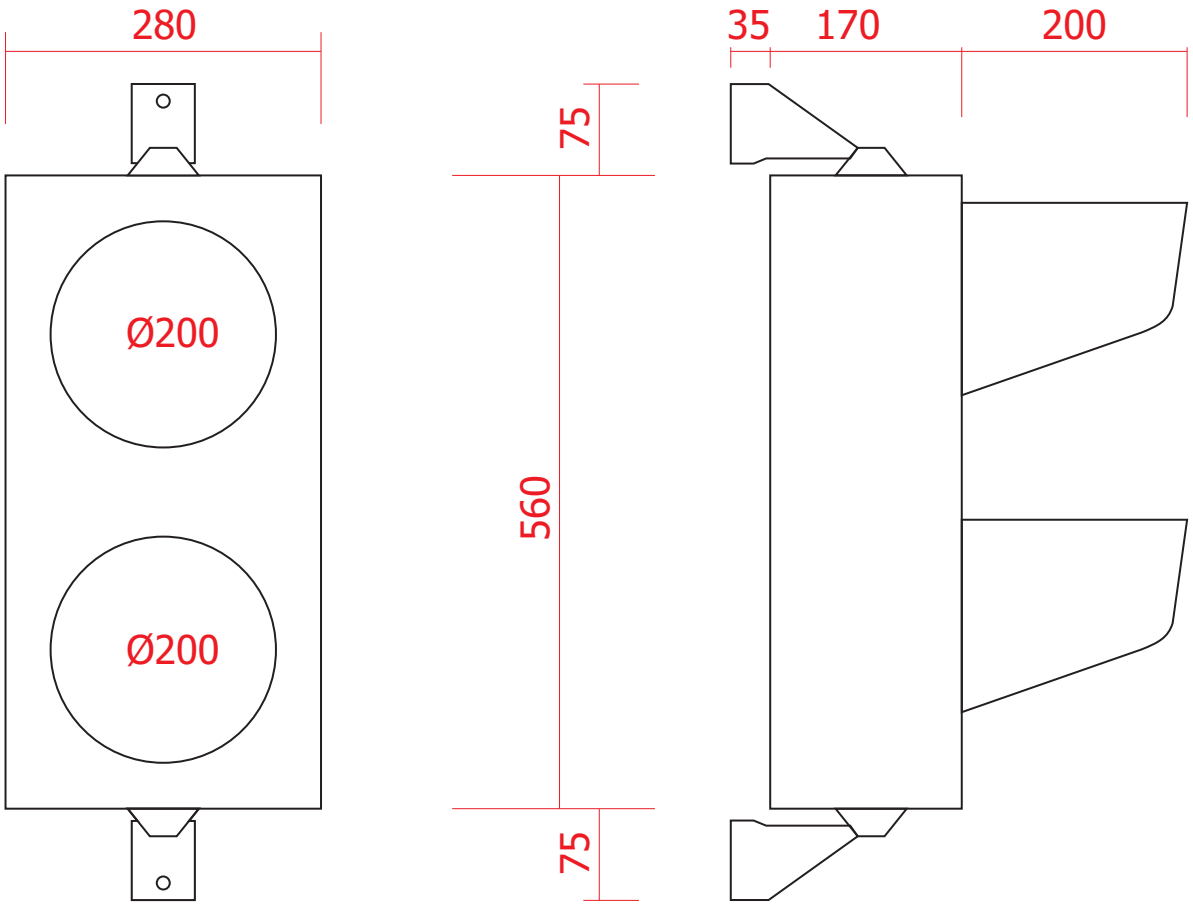
Signal head is connected to the pole on the upper console by screwing with M8x40 screws. On the other hand the down signal head console is connected only by hose clamp. To rotate the signal head right or left the screws M8x60 which are used for connecting consoles to body have to be loosen. After giving the desired angle, tighten M8x60 screws.

Terminal Connection

CABLE COLOR	MODULE COLOR
Yellow/Green	Red-green common neutral
Brown	Red phase
Blue	Green phase

Supply Connection

There are power cables coming from LED module and they are connected to terminals in the body. The system should be operated with a device connected to these terminals or an external power supply. Supply voltage should be 220 (+20% -15%) voltage and 50/60 Hz AC.



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OPERATION MANUAL

OPERATION MANUAL

Our products are designed to work for 7days 24 hours continuously with 220 (+20% -15%) voltage and 50/60 Hz AC under all kind of weather conditions.

SAFETY

Carriage ve Transportation

During transportation, to prevent any damages, packing materials must be used.

Safe Operation of the Device

Before taking the traffic lamp into operation, all connections must be controlled. Front glass needs to be clean. The first operation and implementation of device must be done by the authorized personnel only.

NOTE: *Electrical line must be isolated all the way through its path.*

Monthly maintenance

Periodical cleaning of the optical mechanism must be done regularly.

Annual maintenance

· General cleaning of device should be done.

· Damaged, useless and worn parts should be changed with new ones.

· After maintenance, devices which are not used, have to be stored in a closed place under room temperature.

TROUBLESHOOTING GUIDE

For all kind of failures, please contact OPTIMA.

CE

DECLARATION OF CONFORMITY FOR MACHINES
(DIRECTIVE 98 / 37 EEC, ATTACHMENT II , PART B)

Manufacturer: **OPTİMA MÜHENDİSLİK LİMİTED ŞİRKETİ**
KERESTECİLER SANAYİ SİTESİ
3. CADDE NO:8 SARAY 06980
KAZAN / ANKARA/ TÜRKİYE

Declares that the products,

- **TRL200 POWER LED TRAFFIC LIGHT**

are constructed to be incorporated in a machine or to be assembled with other machinery to construct a machine considered modified by the directive 98 / 37 EEC are in conformity with the regulations of the following EEC directives.

- Directive 98 / 37 EEC directive for machines
- Directive 73 / 23 EEC and directive 93 / 68 EEC low voltage
- Directive 89 / 336 EEC and directive 92 / 31 EEC and directive 93 / 68 EEC electromagnetic compatibility.

And also are in conformity with the following national standards.

- TS – EN 292-1 / January 1996 Standard
- TS – EN 292-2 / January 1996 Standard
- TS – EN 563 / April 1997 Standard
- TS – EN 418 / November 1995 Standard
- TS – EN 60204-3-1 / December 1995 Standard
- TS – EN 50082-1 / April 1995 Standard
- TS – EN 50082-2 / February 1998 Standard
- TS – EN 60000-4-2 / April 1997 Standard

4 April 2001

Ankara
TURKEY

İsmail Tamer ÜLGEN
President
Mechanical Engineer, B. Sc.

GUARANTEE CERTIFICATE

The product that you have bought is under guarantee for any kind of manufacturing and material defects for 1 (one) year from the beginning of the bill date. Installation and usage damages are out of guarantee.

OPTIMA ENGINEERING Co.Ltd.

optima®

TÜV SAARLAND

Member (No. 71) of TÜV CERT

Certificate 71 100 K 558

The management system of

Optima Mühendislik Ltd. Şti.

Keresteciler Sanayi Sitesi 3. cadde No: 8
TR-Saray Ankara

has been assessed and certified as meeting the requirements of

ISO 9001:2008

for the following activities

design, engineering and production of hydraulic, pneumatic, electrical and electro-mechanical equipments; industrial machinery; engineering structures and components; medical waste sterilization systems and shredders

Further clarifications regarding the scope of this certificate and the applicability of ISO 9001:2008 requirements may be obtained by consulting the organization

This certificate is valid from 29/10/2010 until 28/10/2013

Authorised by

TÜV SAAR CERT Certification Body of TÜV Saarland e. V.
Am TÜV 1, 66280 Sulzbach (Germany)
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SAAR CERT TÜV ISO 9001:2008

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CERTIFICATE

TÜV CERT

Management System as per

EN ISO 14001: 2004

In accordance with TÜV CERT procedures it is hereby certified that

Optima Mühendislik Ltd. Şti.
Ivedik Organize Sanayi Bölgesi Altınörnek San. Sitesi 564 Sokak No. 52
TR-06370 Ostim Yenimahalle Ankara

applies a management system in line with the above standard for the following scope

design, engineering, production of hydraulic, pneumatic, electrical, electro-mechanical equipments; industrial machinary, engineered structures and components

Certificate Registration No. **71 104 I 051**
Audit Report No. **B 1748/08**

Valid until **2011-06-20**

TÜV CERT Certification Body
of TÜV Saarland e. V.

Sulzbach, 2008-06-21

This certification was conducted in accordance with the TÜV CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV Saarland e. V., Am TÜV 1, D-66280 Sulzbach

www.tuev-saar-cert.de

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TGA-ZM-26-96-60

TÜV SAARLAND