LA SEMAFORICA

LS30

“Compact” traffic controller

The LS30 traffic controller is a microprocessor control system suitable to manage 2 traffic light groups composed of 8 lamp outputs (2 of which are auxiliary) and 8 programmable digital inputs.

The man-machine interface has been particularly treated by equipping the LS30 with a large 80-character LCD display to always provide a clear and intuitive indication of the operating status; it also provides monitoring and recording of the temperature, of the mains voltage and of the power absorbed by the system in real time, fundamental information in case of anomalies or faults.

The LS30 was built exclusively with solid state components in accordance with all EC directives, has passed all the tests required by industry regulations, in particular respects the provisions of 50556: 2011-02.

FUNCTIONS DEPLOYED

- Flashing
- All Red
- Manual with push-button or remote control via radio
- Automatic with fixed times
- Synchronized
- Implemented by traffic with suppression and / or extension phases
- Preference to public transport and emergency vehicles
- Automatic change to summer / winter time according to standard or user-programmed dates
- Monitoring in voltage and current of all the connected lamps to check and report any anomalies through the TMacs platform
- Remote control with automatic transmission of messages via modem to the occurrence of faults on the controller.

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GENERAL FEATURES

The traffic controller mod. LS30 has been designed to manage traffic light systems such as alternating one-way traffic lights or pedestrian call lights on one-way roads. The controller is able to store information relating to traffic and to ensure at all times the control and transmission of information to the entities involved.

TECHNICAL FEATURES

- Multi-card structure for easy maintenance.
- 6 lamp outputs (2 groups), all controlled in current so as to report the failure of the individual light with any decreasing or increasing loads.
- 2 auxiliary outputs that can be set as lamp output, flashes, relays, etc.
- 8 programmable digital inputs
- 8 different autonomous programs in the structure and time selectable from the LCD panel, remote control or from internal weekly tables that can be programmed via RS 232 serial port via PC.
- 1 RS232 serial port
- Fully programmable ON-SITE.
- Access password to change the system times also from the LCD panel.
- Maximum load for 800W lamps output
- Centralized with GSM / GPRS technology on the TMacs platform
- Programming software in Italian / English
- User interface with display and keyboard for configuring the functional parameters.

CONTROLS AND SAFETY

With reference to the UNI EN 12675 standard, the traffic controller provides a series of redundant control circuits and differentiated hardware in order to guarantee total safety on all outputs.

In particular, the regulator provides the following controls:

- "CONFLICTING GREENS": control of the lighting of green lights according to a programmable matrix
- "INTERGREEN": control of the time between the green lights according to the minimum switch-on times and a programmable compatibility matrix
- "LIGHTNING LAMPS": voltage control on all controller outputs
- "PROGRAM ERROR": control on the traffic light program and on the correctness of the programmed times
- "CURRENT CONTROL": current control on all the lamps on the system

The intervention of one of the controls causes a state of alarm which, depending on the severity, flashes the entire system or limits itself to signalling, through a display or a GPRS modem, the anomaly to the maintenance staff.

The LS30 also has an event log (" black box ") where it stores the occurrence of any alarm or fault by recording the date and time of the event, temperature and mains voltage, controller status, active program in that moment.
The controller programs and the black event box are housed on separate memories, both of the EEPROM type.

SETTING OF TRAFFIC LIGHTS PLANS

The software, designed specifically for technicians / installers, has been developed entirely on the Java® environment, allowing you to operate in complete autonomy from installation to total system programming; it also allows you to test the video program before downloading it via the serial port. It is also possible to download or download programs in the controller without interrupting the service; all this through a password protected access procedure, in order to guarantee data access only to authorized personnel.

APPLICATIONS

The LS30 traffic controller, thanks to its flexibility and easy use, is particularly indicated in the following cases:

- Alternate unique sense
- Access control in tunnels
- Pedestrian crossings in one direction only

CENTRALIZATION WITH TMACS

LS30 is centralizable remotely on platform TMacs.

TECHNICAL DETAILS	
Standard measures (groups)	2
Loop detectors	4,8
Video detectors	Traficon
Power supply	230 V ac±15%
Range of temperature	-40 - +80°C
Load on each output	Max 800 Va
Interface I/O	12V, 100 mA
Cabinet	300x400x200mm
Communication serial Port	RS 232
Centralized systems	TMacs
Certifications	EN-50556

LA SEMAFORICA
Via Ponticello, 17 - 35129 Padova (PD) - ITALY
+39 049 773055 +39 049 8074002
www.lasemaforica.com info@lasemaforica.com