telent's Optima Traffic Signal Controller

The Optima Controller is modular in design and can be configured for all types of intersections and pedestrian control scenarios. The modular software architecture provides full support for a range of integral traffic applications.

Overview

The Optima controller family consists of:

- Optima-J , large case controller, 2-32 phases.

- Optima-P, small case controller, 2-6 phases.

- 11" and 19" cuckoo variants of above

All options are available as 230V LV and 48V ELV lamp switching variants.

Running telent's modular software architecture, this powerful package provides intersection, Pelican, Puffin and Toucan strategies to UK Highways Agency specifications TR2500 (now TOPAS 2500A).

MOVA 8, Remote Monitoring and UG405 (UTMC) control are available as additional, integral, software packages.

Features

- Powerful processor card running Linux is used for all of the control and supervisory functions.

- Separate safety card processor guarantees that no hazardous situations occur.

- Windows based Configurator and Simulator software packages.

- Integral Remote Monitoring, MOVA 8 and UG405 UTMC available.

- Modes: Manual, Fixed Time, Vehicle Actuated, Hurry call, Cable less linking, UTC, Part Time, MOVA (4 streams), LRT, Bus Priority, Wig Wag

- Lamp monitoring for halogen and LED signals

- Rich special conditioning language

Technical Specifications

Capacity

- Expandable to 32 phases
- Expandable digital I/O to 224 inputs/outputs
- Expandable to 64 loop inputs
- Eight independent streams
- 2A max load per individual phase drive

Dimensions (mm)

Small case 947(h) x 505(w) x 486(d)

Large case 1245(h) x 697(w) x 486(d)

Environmental

Temperature -15ºC – +60ºC

Humidity 0% - 99% (non condensing)

Certification

EN-12675, EN-50293, HD-638S, TR2500

TOPAS Registered

Electrical Supply

Supply Voltage: 230 V ac +10% -13% (50 Hz ± 4%).

Power Consumption

6 A Controller: 25 – 35 W (small case)

20 A Controller: 40 – 45 W (large case)

30 A Controller 50 – 60 W (large case – maxi)

The above are for a standard controller running in mimic mode (no external lamps driven).

Internal Supplies

Supply	Large Case	Small Case
24V dc Detector Supply	10A	3.5A
Aux Mains	3 x 5A	2 x 5A
Reg Signs	5A or 10A	Not fitted
Maintenance socket	2	2

Summary:

A flexible, expandable Traffic Signal Controller providing a comprehensive set of integral traffic applications.

Benefits:

- Expandable.
- Future proofed by addition of software facilities.
- No additional hardware required for MOVA and UTC control meaning:-
    - Maintenance spares reduced
    - No extra space required in cabinet
    - Reduced single points of failure