



CROSS RS 4

The CROSS RS 4 traffic light controller is an essential component of the up-to-date traffic control system in urban areas according to the latest performance and safety standards.

KEY FEATURES

- Fullfills requirements of EN 12675, EN 50556
- Fixed tome control
- Traffic-actuated control (fixed and flexible stage order and structure, free creation of stages, and free creation of signal plan based on predefined criteria)
- Public transport preference (active, passive, preconditional, absolute)
- Integrated emergency system (IES) preference in 13 preset routes
- All red night mode" a mode in which the "Free" signal is only used for the signal group where the detector request has been registered
- Special logic programming possibility via user defined code (user defined special functions)
- Multi-system programming
 - Switch point basis
 - Parametrical definition
 - Stage transition definition system

PROGRAMMING POSSIBILITIES

- CROSS PTC: efficient programming tool for the parametrical definition of controller logic
- LISA+: traffic engineering SW with the possibility to use defined parameters and logic for uploading of controller with OML support
- VD server: possibility of direct uploading of the transport solution via a standardized OCIT platform

KEY BENEFITS

- "Intelligence inside the controller"
- Adaptive and traffic actuated control

SWITCHBO)

- User defined special functions
- OCIT[®] compatible
- TÜV certified
- Programmable with LISA+ and CROSS PTC
- Decentralized philosophy
- SIL 3
- Display 2x20 or 4,3" touch screen LCD
- C-ITS compliant

CONNECTIVITY CONTROLLER - CONTROLLER

- CROSS protocol
- BEFA 8
- AŽD protocol
- Parallel bus protocols based on a defined voltage level combination

CONNECTIVITY CONTROLLER - UTMC

- OCIT[®] protocol
- DIASER

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KEY TECHNICAL PARAMETERS

Controller nominal supply voltage	230 V AC -13 to +10 %, 50 Hz
PCB ominal supply voltage	12 V DC
Controller circuits power consumption	max. 300 VA
Maximum power rating of plug	max. 500 VA
Output circuit load capacity	2–500 VA, SW adjustable, max. 2 A per output
Minimum detected load output	2 W
Insulation resistance between wires	min. 50 M Ω
Output circuit voltage	230 V AC / 110 V AC for bulbs or LEDs 40 V AC OCIT for LEDs transformer 500 or 1 000 VA 42 V / 31 V ASTRIN for dimming LEDs, transformer 500 or 1 000 VA, 10 V AC
Dimmer module for LED outputs	Normal mode output voltage 42 V AC Dimmed mode output voltage 31 V AC Maximum output load capacity 1000 VA (LED)
Operational temperature range	-40 to + 60 °C
Overvoltage protection	Class 1 to 3
Degree of protection	IP 54
Resistance to vibrations	3,5 mm / (1-9 Hz); 10 m/s ² / (9-150 Hz))
Resistance to impacts	150 m/s ² / 11 ms
Interface	3 x RS 232, 1 x Ethernet, 2 x USB optionally: GSM, 2x Ethernet, opto-isolated RS 232, RS 485, DSL
Weight	<0,8 kg [40V/42V AC] <1,1 kg [230V AC]
Compatibillity with signal heads	Manufacturer independent LED or bulbs

KEY FUNCTIONAL PARAMETERS

Number of signal groups	max. 64
Number of signal head outputs	məx. 288
Output circuit monitoring	Each output circuit
Number of internal detectors induction loops	max. 128
Number of usable external inputs	max. 248
Number of usabel external outputs	max. 111
Maximum number of all signal plans	max. 68
Number of traffic stages in each signal plan	max. 16
Number of stages of manul control	max. 6 + all red
Number of predefined routes for ambulances and fire brigades	max. 13
Number of controllers connected in coordination without the traffic control center	max. 256 (limited by line capacity)
Number of controllers connected in coordination with the urban traffic management center	1500