



# Technical Data

## MTC 5000 Traffic Controller Series

# MTC 500

### Housing

|                                                 |                     |
|-------------------------------------------------|---------------------|
| Standard cabinet without / with ESC element     | size 2              |
| Max. number of slots without / with ESC element | 18 / 12             |
| ESC element                                     | as required locally |

### Control electronics

|                                                    |                                                                    |
|----------------------------------------------------|--------------------------------------------------------------------|
| Max. number of channels without / with ESC element | 216 / 144                                                          |
| Max. number of signal groups                       | 64                                                                 |
| Control technology                                 | fully electronic system using microprocessor technology            |
| Communication options / interfaces                 | serial, parallel, various interfaces                               |
| Control kernels                                    | Trelan/Trends, VS-Plus                                             |
| Clock generator and clock accuracy                 | mains frequency, optionally DCF 77 radio clock                     |
| Time base for co-ordination                        | freely programmable                                                |
| Error indication                                   | plain text via display, service notebook                           |
| Signal sequence                                    | all signal sequences programmable                                  |
| Startup and shutdown program                       | freely programmable                                                |
| Street-lighting unit                               | optional                                                           |
| Data supply                                        | via service notebook, program generation using high-level language |

### Safety technology

|                            |                                                                                                                  |
|----------------------------|------------------------------------------------------------------------------------------------------------------|
| Signal fault prevention    | fail-safe technology to DIN / VDE 0832-100, two-channel diversity monitoring of lamp status                      |
| Intergreen monitoring time | intergreen time calculator                                                                                       |
| Radio noise suppression    | CE-mark / EN 50293 (DIN VDE 0832-200) / EN 60950                                                                 |
| Lamp monitoring            | freely configurable triac-switch channels, current and voltage measurement against accidental switching on / off |

### Electronical specifications

|                                            |                                                      |                                |
|--------------------------------------------|------------------------------------------------------|--------------------------------|
| Max. connected load                        | 3.5 kW                                               |                                |
| Max. power consumption without lamp output | 0.3 kW                                               |                                |
| Mains voltage                              | 230 V (-15 ... +10%)                                 |                                |
| Mains frequency                            | 50 Hz (-2 ... +2%)                                   |                                |
| Max. lamp output per signal switch at      | 10 V / 40 V / 230 V<br>OCIT LED signal heads 40 V AC | 40 W / 80 W / 400 W<br>5 - 9 W |
| Energy reserve                             | 30 ms (thereafter shutdown and restart)              |                                |

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