



## TRAFFIC LIGHT CONTROLLER ACTROS

SWARCO TRAFFIC SYSTEMS GMBH is a member of the internationally active SWARCO group, the one-stop-shop for road markings, signage, signalisation, and traffic management – your reliable partner for traffic solutions.

ACTROS is used for individual intersection control, or as a system component of a comprehensive Traffic Management System.

A variety of central interfaces assures easy integration into all important traffic management environments. For this purpose, especially the open standard for central interfaces, OCIT, is fully supported. ACTROS also supports manufacturer-specific interfaces. ACTROS performs the following control processes: LISA+, VS-PLUS, PDM/TL (with Motion), TRELAN/TRENDS, as well as additional modifications within individual program sequences. The extensively equipped standard traffic engineering platform LISA+ is primarily used.

### PERFECTED HARDWARE STRUCTURE:

ACTROS offers a modular architecture for flexible and individual adaptations, suitable for almost all modern traffic control systems. The system is based on fast and compact hardware, divided into three areas: system and functional modules, and optional components.



ACTROS

### ERGONOMICS AND SAFETY:

ACTROS sets new standards in terms of ergonomics and operating safety. It can be conveniently controlled on-site by means of the integrated control unit, or by an integrated ACTROS.access web server via PDA or a workstation with Microsoft Internet Explorer. The ACTROS safety concept has resulted in a design with defined fail-safe technology. All lamp outputs are subject to current and voltage monitoring. All signal states are monitored, identified and controlled as per DIN VDE 0832 Part 100 and the guidelines for traffic signal systems (RiLSA).

### ACTROS.line AND ACTROS.energyline SYSTEM VARIANTS:

The ACTROS.line and ACTROS.energyline variants offer a decentralized control unit design, linking intelligent, distributed system components via flexible, easy-to-install bus lines to form an overall system.



Quality with a promise.  
We have been certified  
pursuant to  
**DIN EN ISO 9001**





TECHNICAL DETAILS: TRAFFIC LIGHT CONTROLLER ACTROS

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| <b>HOUSING:</b>  |  |
| Standard cabinet with / without public utility part<br>Public utility part   | Size 1, 2, 2 as per DIN 43629 Part 1, IP54<br>as per TAB 2007, IP54  |
| <b>CONTROL ELECTRONICS:</b>  |  |
| Max. number of signal groups<br>Max. number of lamp outputs<br>Number of lamp outputs per control board<br>Max. number of I/Os<br>Number of I/Os per I/O card<br>Traffic-related control<br><br>Central operation / interface<br><br>Operation<br>System clock<br>Signal sequence<br>Public transport<br>Signal safeguarding | 64<br>288<br>24<br>288<br>16 inputs + 8 outputs, 32 inputs + 32 outputs<br>Fixed time program, clock control, signal group, and phase-oriented, traffic-dependent control, coordinated activation point control LISA+, or freely programmable in Java control elements such as VS-PLUS, PDMe/TL, MOTIONe, TRELAN/TRENDS, BALANCE; TS 2000, FESA<br>OCIT, V1.1 and V2.0, as well as Profile 2 and Profile 3, SB12, SB15, SB16, VnetS, SSI, DVI 35, CANTO, ACTROS.connect<br>Control unit, integratable manual control unit, web server<br>0.5 s, 1 s<br>Freely programmable, standard as per guidelines for traffic signal systems (RiLSA)<br>R09 messages according to the VÖV 04.05.1 standard<br>Designed with fail-safe technology; current and voltage monitoring of all lamp outputs as per DIN VDE 0832 Part 100 and guidelines for traffic signal systems (RiLSA) |
| <b>POWER ELECTRONICS:</b>  |  |
| Max. power consumption without lamp wattage<br>Mains voltage<br>Power frequency<br>Permissible lamp voltages<br>Lamp wattage per signal output<br>Max. lamp wattage per signal output<br>Max. lamp wattage per control unit  | Typ. 50 VA, max. 300 W<br>230 V (-15 ... +10%), 115 V (-15... +10%)<br>50 Hz (-5 ... +5%); 60 V (-5... +5%)<br>10 V / 40 V (OCIT-LED conformant) / 42 V (ASTRIN-Standard) / 230 V<br>12 to 460 W at 230 V and 10 V, 3 to 40 W in the case of 40 V LED signal transmitters<br>460 W or 2 A<br>3,000 W or 13 A   |
| <b>ACTROS.line: Features of decentralized technology:</b>  |  |
| Max. number of independent bus lines<br>Max. number of open-loop control modules per bus line<br>Number of lamp outputs per decentralized control board<br>Number of inputs per decentralized control board<br>Max. length of a bus line<br>Lamp types   | 24<br>15<br>6<br>4<br>1000 m<br>40 V OCIT-LED signal transmitters  |
| <b>Certification:</b>  |  |
| TÜV Rheinland  | DIN VDE 0832-100: 2010, DIN VDE V 0832-110: 2012,<br>DIN V VDE V 0832-500: 2008, EN12675: 2000,<br>SIL3 acc. EN 61508 (Part 1 to 7): 2010  |

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SWARCO TRAFFIC SYSTEMS GMBH

SWARCO TRAFFIC SYSTEMS GMBH – is one of the leading suppliers of intelligent traffic systems in Germany. Building on many decades of experience, it offers a wide range of innovative solutions for urban and interurban traffic management, including parking and traffic detection. Its nationwide service and maintenance network guarantees highest possible system availability and improved road safety. With economical, sustainable, and environmentally friendly technologies we help ensure smooth and safe traffic flows.



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