



LMS

2.6

Application

- individual lamp remote control and monitoring
- stop bar control and monitoring
- remote control and monitoring of taxiway centreline
- component of the SMGCS system

Description/Properties

- control and monitoring via optical and metallic communication cables
- connection of all communication routes into a ring ensures reliable function even after interruption of a cable or failure of one of modules; at the same time the system immediately identifies precisely the location of failure
- communication with the central unit via glass optical cable guarantees a 100% resistance to electromagnetic interference even when the cable is laid in parallel with power cables
- communication between the modules LMC and LLC up to the distance of 240 m via metallic screened cable with optically insulated inputs
- reliable control of individual lamp or their groups
- measurement of voltage of each lamp allows evaluation of its input power and to diagnose immediately its failure
- easy configuration and control with use of the module LTP reduces costs and time necessary for maintenance of the system
- the connectors used allow quick and easy module replacement

Table of maximum distances between modules

	KS-AMS	LCU-01	LMC-01	LLC-01
KS-AMS	-	10 km	-	-
LCU-01	10 km	-	2 km	-
LMC-01	-	2 km	2 km	240 m
LLC-01	-	-	240 m	240 m

Operating temperatures and modules protection

SU-24B.LMS with modules LCU-01	LMC-01	LLC-01
-5/ + 55°C	-55°C / + 60°C	-55°C / + 60°C
IP20	IP67	IP68



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Rack SU-24B.LMS

- basic rack for placing of the LCU modules in transformer sub-station
- contains moreover power supply circuits with their own back-up battery, modems for communication with the AMS system at the control tower and optical switchboard
- dimension: 600×1305×450 mm
- weight: 80 kg
- position for LCU: 4
- power supply: 93-132 V/187-264 V, 50-60 Hz

Module LCU

- control unit of the AMS system, which ensures communication between modems and LMC modules via two independent optical lines connected into a ring
- optical input/output: 2×TX, 2×RX
- power supply: 24 V DC

Module LMC

- converter of optical communication via metallic line
- situated near the airfield ground lighting
- main function consists in connection of communication of the LCU module with the LLC
- dimenion: 310×400×110 mm
- weight: 8,4 kg
- power supply: 1,8 A-6,6 A
- optical input/output: 4×TX, 4×RX

Module LLC

- ensures control and monitoring of individual lamps
- connected between the transformer and signal lamp
- two independent communication ports, through which it is connected with the LMC and other LLC into a ring



Module LTP

- testing and programming device for the modules LLC and LMC
- · verify functionality directly on the field
- powered (supplied) from internal accumulator, from a car battery or from mains via adapter

Cables LLC-CAB

- prefabricated cables, for LLC and LMC module interconnection
- resistant shielded twisted cable
- connectors with protection Ip68
- protected against damage during transport or during drawing through tubes
- various lengths
- quick replacement in case of damage
- LLC-CAB.xx (xx=length of cabel)

Modification	LLC-01.1	LLC-01.RGC
Num. of contr. lamps	1	2 (WIG-WAG)
Dimension [mm]	160×185×90	160×185×90
Weight	~2,2 kg	~2,2 kg
Power supply	2 A-6,6 A	2 A-6,6 A





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