

POWER EQUIPMENT

CAS

- Lamp Failure Measuring Unit

COSAL



Specification

The ADB SAFEGATE Control System for Airfield Lighting (COSAL) is used for supplying, controlling and monitoring of series circuits.

CAS, a constituent part of the COSAL system, is a scalable measuring system for acquiring, displaying, and forwarding lamp failure figures and current actual values in phase- controlled series circuits of the airport lighting system.

Construction

CAS is installed in a 19" drawer, which at the front features a back-lit 4-line LCD display and a membrane keyboard for parameterization and manual operation.

At the rear are the plug-in contacts for the power supply, for communication and for connecting the current and voltage measuring transducers of the series circuits.

The measuring system can be fitted with any number of measuring modules up to 8, with up to eight circuits connected to each measuring module.

The measured values acquired are made available to the higher-order instrumentation and control system via a field bus.

The field buses currently available solely for redundant and non-redundant communication are CAN-BUS and PROFIBUS-DP, while for the non-redundant category the serial protocols RCOM and MODBUS are additionally possible via the system's own RS485 interface.

The data thus conditioned are shown on the display with a cycle time of approx. 320 ms, together with the name of the circuit concerned, and forwarded to the instrumentation and control system.

There is also provision for manual selection of individual circuits for display.

Technical Features

- A maximum of 64 series circuits can be connected
- Actual current resolution 10 mA
- Option for manual selection of individual series circuits
- Field bus coupling redundant or non-redundant

Technical Data

Ambient temperature operation:	0°C to 45 °C
Ambient temperature storage:	-20°C to 70°C
Relative humidity:	10 % to 90 %, non-condensing
Operating elevation:	max. 2000 m
Power supply:	230 V AC, 30 VA
Operator controls, front:	membrane keys/LED, local/remote changeover switch, service socket
Measuring transducer connection:	SUBDM37 plug connectors, each for 8 circuits
Ext. measuring transducer, current	6.6 A/2.2 V for 33.2- shunt resistor
Ext. measuring transducer, voltage:	230 V/5 V or 400 V/5 V
Measuring accuracy:	1.5 % to CF 3.5
Display:	LCD, 4-line, back-lit
Communication:	CAN-Bus (125kBit/s) (Standard) PROFIBUS-DP (up to 10 MBit/s) (Option) RCOM RS485 (up to 19200 bd) (Option) Modbus RS485 (up to 19200 bd) (Option)
Dimensions (W x H x D):	19" drawer, 483 x 132 x 509 mm
Weight:	4.5 kg
Ordering designation:	CAS 001 LUC 09 7105 R1 (8 channels) CAS 002 LUC 09 7105 R2 (16 channels) CAS 003 LUC 09 7105 R3 (24 channels) CAS 004 LUC 09 7105 R4 (32 channels) CAS 005 LUC 09 7105 R5 (40 channels) CAS 006 LUC 09 7105 R6 (48 channels) CAS 007 LUC 09 7105 R7 (56 channels) CAS 008 LUC 09 7105 R8 (64 channels)



Product specifications may be subject to change, and specifications listed here are not binding. Confirm current specifications at time of order.