

THE FUTURE OF ALCMS

1.500 optical fiber modules MCL0 installed
6.000 connectors
0 failure in 12 months

MC SOLUTIONS

has developed MIA SYSTEM Airfield Light Control and Monitoring System: compliant with FAA L-890 from type A, just control, to type D with a complete SMGCS, compliant with EASA regulations.

The High Tech ALCMS is based on optical fiber communication, from field to Tower, installed on industrial PCs, offering the highest technical reliability and several benefits to the airport authority.

The software is tailored and we customize not just the layout, but the functionalities and the services to be interfaced as well. The software is controlled, uploaded and updated by remote. Moreover, we use the real software on the customer's airfield structure to simulate and test the requested changes, as well as to train Tower and Maintenance operators.

This high tech modular system has its core in two filed devices: MCL0 Module Control Lamp Optical which is a worldwide patent pending and our CDU Crossing Detection Unit that recognize an aircraft or vehicle, its speed and direction, through a magnetic loop in the asphalt (no microwaves) for a A-SMGCS and RWY Incursion prevention with no false alarms.

Distinguishing features in comparison with the actual powerline communication systems are: high speed and huge amount of data comm, monitoring of primary and secondary AGL services, feedback from the malfunctioning lamp in 1 second on a 100 channel module, free from interferences because it does not use frequency, great flexibility for implementations (i.e. strip extension), no limits in manholes positioning due to cable specs, no dedicated manholes and less transformers for module at #3 #4 #5 lamps, IP68 case & IP68 plug&play connectors.



TECHNICALLY MIA SYSTEM SOUNDS THE WINNING CHOICE...

SO, WHY SHALL AN AIRPORT CHOOSE THIS NEW TECHNOLOGY FOR THE NEXT 30 YEARS?

Safety Performance: EASA compliant – FAA compliant - efficient - higher traffic volume management; reliable monitoring status; low & punctual maintenance: lamp history & expected lifetime; no false alarms; no category loss in LVP.

Technical Performance: cost efficient/green airport – Low Consumption Devices: on 1000 module power line comm actual module 15/20.000-Watt VS 1.000-Watt MCLO. No isolation required and the monitoring functionality is not affected by isolation losses.

Installation Flexibility: self-addressing module, quick & easy to install: no qualified personnel required. Countless modules on a channel.

Software Performance: available on portable devices for easy maintenance on airfield, remote 24/7 support & upload, SW changes test from remote, training courses on real customer's airfield and program.