

# CDU

CROSSING DETECTION UNIT



**AUTONOMOUS**



**AVAILABLE FOR EVERY  
AERODROME CAT**



**HOLDING POSITION  
Incursion alarm**



**LIGHTED STOP BAR alarm  
LIGHTED STOP BAR on/off**



**LIGHTED STOP BAR alarm  
LIGHTED STOP BAR on/off  
LEAD IN MANAGEMENT**



**ADVANTAGES**

NO INTERFERENCES  
NO FALSE ALARMS  
NO PERIODICAL CALIBRATION  
NO MAINTENANCE  
1 DEVICE PER HP/STOP BAR



**WHO WE ARE**

### Our Team

MC Solutions is an Italian company in its second generation and after 12 Airports decides to rely on MCACG to offer North America's aerodromes the cutting edge safety MIA System to prevent runway incursion and perform the most efficient ALCMS | A-SMGCS.

### Our Values

Passion for aviation, in-depth operational knowledge and safety mantra: all tailored to customer requirements.

### Our Added Value

ISO 9001:2015 Quality Management  
FAA L-890 up to level 4 | D  
certificate Nr. 69010327-001-1  
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BR203-MIA-L1-L4-EN

# MIA SYSTEM

Modular Intelligence Airport

**RUNWAY INCURSION  
PREVENTION**

**HIGH TECH & CERTIFIED  
AGL REMOTE CONTROL  
AND MONITORING**

**FAA L-890 certified  
up to level D 4**

# CAT I FAA L-890 level 1/2

MIA-L1 • MIA-L2 - TYPE A

- ☑ Sensor relè on CCR output
- ☑ Coherence and feedback



## ALCMS

- LIGHT REMOTE CONTROL THROUGH CCRS
- AUXILIARY REMOTE CONTROL THROUGH CCRs
- STEP BRILLIANCE PRE-SETTED THROUGH CCR INTERFACE
- FAIL SAFE type A: AT PRESET BRILLIANCE SETTED ON CCR interface



## + CDU

OPTION TO IMPLEMENT



## ADVANTAGES

- COMPATIBLE WITH ALL LIGHTS
- COMPATIBLE WITH ALL CCR
- OPTICAL FIBER COMMUNICATION
- REDUNDANT NETWORK
- FAULT TOLERANCE
- REMOTE TOWER PROJECT READY

# CAT II/III FAA L-890 level 3

MIA-L3 . TYPE B

- ☑ Monitoring through CCR and Interface



## ALCMS

- REMOTE CONTROL & MONITORING OF: APPROACH | TDZ | RWY EDGE | CENTER LINE | THRESHOLD | RWY END | ESSENTIAL TWY
- STOP BAR MANAGEMENT: TIME SETTED & MANUAL: CDU
- FAIL SAFE type B: AT LAST STATE BRILLIANCE SETTED ON CCR



## + CDU

OPTION TO IMPLEMENT



## ADVANTAGES

- COMPATIBLE WITH ALL LIGHTS
- COMPATIBLE WITH ALL CCR
- STEADY HIGH SPEED OPT. FIBER COMM.
- REDUNDANT NETWORK
- FAULT TOLERANCE
- OPERATIVE IN SEVERE ENVIRONMENT
- REMOTE TOWER PROJECT READY

# CAT III FAA L-890 level 4

MIA-L4 . TYPE B

- ☑ Complete with monitoring
- ☑ Monitoring device MCLO  
#1/2/3/4/5: up to 5 outs individual lamp control IP68 | -4°F ÷ 203°F | optical fiber com.



## ALCMS SMGCS

- REMOTE CONTROL & MONITORING OF: APPROACH | TDZ | RWY EDGE | CENTER LINE | THRESHOLD | RWY END | ESSENTIAL TWY
- TWY Edge - option
- STOP BAR MANAGEMENT: TIME SETTED & MANUAL: CDU
- COMPLETE A-SMGCS WITH 90MT OF LEAD IN MANAGEMENT "FOLLOW THE GREEN"
- COMPLETE SURFACE ROUTE MANAGEMENT - option
- FAIL SAFE type B: AT LAST STATE BRILLIANCE SETTED ON CCR



## ADVANTAGES

- COMPATIBLE WITH ALL LIGHTS
- COMPATIBLE WITH ALL CCR
- STEADY HIGH SPEED OPT. FIBER COMM.
- REDUNDANT NETWORK
- FAULT TOLERANCE
- MONITORING ACTIVE AT CCR OFF
- OPERATIVE IN SEVERE ENVIRONMENT
- SAVINGS: MAINTENANCE, TRANSFORMERS, CONSUMPTION
- GROUND EFFICIENCY
- INCREASED CAPACITY
- PASSENGERS' EXPERIENCE ENHANCEMENT
- REMOTE TOWER PROJECT READY