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TECHNICAL DATASHEET · OBSTRUCTION LIGHTING · CONTROLLER

Radio Obstruction Light Controller

EcoSolaris code **ECO-AL-2033** | Ordering code **AL-OBS-20-AX** | **Made in Romania** Manufactured in the EU





Controller that commands and monitors low- and medium-intensity obstruction lights by radio on 868 MHz within a 1000 m radius. It switches automatically between day and night using its built-in photocell and reports faults on the LCD and to the BMS.

ORDERING CODE	COMMUNICATION
AL-OBS-20-AX	**radio, 868 MHz**
MONITORING AND CONTROL RANGE	LIGHT POLLING
1000 m	**every 10 seconds**

Price on request | **EcoSolaris technical support · Dubai**

Technical specifications

Ordering code	AL-OBS-20-AX
Communication	radio, 868 MHz
Monitoring and control range	1000 m
Compatible lights	low or medium intensity obstruction lights, single or double (twin)
Light polling	every 10 seconds
Synchronisation signal	every 10 minutes and on day/night change
Photocell	integrated in front panel, 9 thresholds from 100 lx to 900 lx
Display	LCD
Alarm output	dry contact (relay) for BMS
Power supply	110 or 230 V AC
Power consumption	max. 10 W
Protections	overload, overvoltage, EMI filter, SPD
Degree of protection	IP 66
Temperature range	-40 °C to +55 °C
Dimensions	400 × 300 × 250 mm
Weight	5 kg

Features

- Photocell with 9 sensitivity levels (100–900 lx), set from the front panel
- Radio sync every 10 minutes and at day/night change
- Each light polled every 10 seconds, reporting errors
- Error codes: L XX (LED/power supply), C XX (no answer to 2 successive queries)
- Dry-contact relay for BMS and failure LED
- TEST button for day/night switching (approx. 10 seconds)

Standards and compliance

- EMC emission: EN55032 (CISPR32) Class B, EN61000-3-2 Class A, EN61000-3-3, EAC TP TC 020
- EMC immunity: EN61000-4-2,3,4,5,6,8,11; EN55024, light industry level, criteria A; EAC TP TC 020
- SR EN 61439-1:2012 – Low-voltage switchgear and controlgear assemblies, Part 1: General rules
- SR EN 61439-2:2012 – Low-voltage switchgear and controlgear assemblies, Part 2: Power switchgear and controlgear assemblies
- SR EN 60204-1:2007 + AC:2013 – Safety of machinery, electrical equipment of machines, Part 1: General requirements

Materials and construction

- Housing: powder-coated metal (grey)
- Cable gland: nickel-plated brass

Ordering code structure

AL - OBS - 20 - AX

AL	Series indicator (Airfield Lighting)
OBS	Category (Obstruction Lighting)
20	Product indicator – obstruction light controller
AX	Product type (accessory)

Applications

Telecom towers and masts · **High-rise buildings** · **Antennas** · **Low- and medium-intensity obstruction lighting systems**

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