

# CIP400-XXXX-AD4

## Obstruction light system controller including Ethernet connection

Controller for use with Orga obstruction light systems for offshore windfarm applications. The CIP400 provides full system operation management, advanced control facilities, status information, and system diagnostics through an Ethernet port.

### KEY FEATURES

- Controller for systems with Orga aeronautical obstruction lights, Helihoist lights, Search and Rescue, ID lights & Visibility sensors
- System status monitoring and alarm interface
- Manual Control override of connected lights
- Control options: Modbus, Webserver over TCP/IP & hard wired I/O
- Simple cable connection for easy installation
- Supplied with EMC cable glands / blind plugs
- Two year warranty
- No maintenance required over service life

### PERFORMANCE CHARACTERISTICS

- Controls up to ninety Orga aeronautical obstruction lights
- Ethernet interface for remote system monitoring and control
- Ethernet connection CAT6 with RJ45 connection compatible with standard IEEE 802.3u
- Overall system fail contact
- I/O interface for control using 24 Vdc input signals
- Optional main-standby light configuration available

### STANDARDS / CERTIFICATION

- ICAO Annex 14, volume I; International standards and recommended practices: Aerodrome design and operations, 6th Edition, July 2013, chapter 6 (for systems incl. CIP400 controllers and obstruction lights)
- United States Federal Aviation Administration AC 70/7460-1K; Obstruction Marking and Lighting, February 2007 (for systems incl. CIP400 controllers and obstruction lights)
- Various national approvals (for systems incl. CIP400 controllers and obstruction lights)

### ELECTRICAL CHARACTERISTICS

- Input voltage 40-64 Vdc & 120-240 Vac, 50-60 Hz
- Output voltage: 40-64 Vdc for obstruction lights, tower lights, ID light and helicopter hoisting light connection
- Output voltage: 120-240 Vac nominal, 50-60 Hz for visibility sensor and helicopter hoisting light connection
- Operating voltage: See table
- Power consumption: 1W
- Limited Overvoltage protection

### PHYSICAL CHARACTERISTICS

- Dimensions: see drawing
- Weight: 12 kg
- Design degree of protection: IP65
- Operating temperature range: -40° C to +55° C
- AlSi12 alloy painted enclosure
- Shipping information: 700x450x200; 14 kg

### SYSTEM DESIGN, CONTROL AND MONITORING

- The CIP400 can use the GPS synchroniser of a connected medium or high intensity obstruction light as the system synchroniser



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CIP type name			Supported features								
CIP400	Operating voltage	Med. / High Int. Lights	Tower light controller support	Tower light controller support using fiber optics	Visibility meter with OrTalk connection	Reduced intensity control	Aircraft detection Lighting System (ADLS)	Helihoist control	Search and Rescue operation control	ID light control	Additional overvoltage protection
CIP400-OMVI-AD4	40-64Vdc	V	V		V	V	V	V	V	V	V
CIP400-OTVI-AD4	40-64Vdc	V		V	V	V	V	V	V	V	V

