

GPS plug-in module



Synchronisation module with twilight switch for RE-LED2 aviation aid systems

The module is used for synchronisation of RE-LED2 aviation aid systems. For this purpose, the module evaluates the time signal sent by satellites of the Global Positioning System (GPS) and generates a UTC0 synchronous output pulse. The integrated twilight switch (TWSW) is used to

switch between day and night marking. The current lux value is sent to the aviation aid controller via the RS485 interface.

The module can be connected directly to any RE-LED2 lamp.

Features

- Integrated GPS receiver
- Inboard antenna
- UTC0 synchronised output
 - » Sync point adjustable by software (via RE-LED2 Controller GUI)
- Integrated twilight switch
 - » Switching point adjustable by software (via RE-LED2 Controller GUI)
- Salt water resistant housing
- Output of TWSW data via RS485 interface
- PMMA sight glasses for TWSW
- Easily replaceable
- Design lifetime: 25 years

Electrical properties

Supply voltage:	24 V DC
Power consumption:	< 1.2 W

Environmental properties

Protection class (stucked):	IP 65
Operating temperature:	-40 °C to +60 °C
Max. wind load:	80 m/s
Max. solar radiation:	1000 W/m ²
Corrosion class:	C5 (ISO 9223)
Vibration:	EN 60068-2-6, 60068-2-64, Nordtest 016G, M102

Version: September 2018 / Subject to alterations.

Mechanical properties

Dimensions (H x W x L):	72 mm x 60 mm x 44 mm
Connector type:	24-pin industry standard plug
Weight:	Approx. 250 g
Material (sleeve housing):	Die-cast aluminium, saltwater resistant
Material (sight glass):	PMMA
Mounting / Locking:	Single locking latch

Connection

24-pin industry standard plug

24-pin (male)	
PIN	Funktion
13	24 V DC
14	GND
15	Sync. Signal (24 V DC, 250 ms)
16	RS485 A
17	RS485 B