

10 - 08 - 2006

DMKI - FTPE 9013075 RO

| | |
|-------------|------------------|
| designation | SUNIS SENSOR RTS |
| reference | 9013075 |
| range | Inteo |

FUNCTIONS

- Autonomous sensor that enables to measure the sun light level

Up to 3 sensors can be memorised in one motor

One SUNIS can be memorised in several motors

The threshold can be set directly on the SUNIS with a potentiometer going from **5 to 55 Klux**.

When the daylight level falls below the threshold setting, a time delay between 15 to 30 minutes is activated

(according to the sun presence duration).




■ CHARGING TIMES

| Weather condition EQUIVALENT IN Klux |  <10 Klux |  approx 20 Klux |  > 30 Klux |
|---|---|--|--|
| minimum charging time needed for programming and installing the sensor | 45min | 20-25min | 5-15min |
| discharging time | 24 hours | | |

Guaranteed autonomy of 20h for 10 years

■ TEMPORISATION

•Operating mode identical to current Soliris sensor : same tempo used, same frames sent = same behaviour

|  | User mode SENSOR | User mode RECEIVER | User mode SENSOR & RECEIVER | Demo mode SENSOR | Demo mode RECEIVER | Demo mode SENSOR & RECEIVER |
|---|---------------------|-----------------------|--------------------------------|---------------------|-----------------------|--------------------------------|
| sun appearance | 2 min | | 2 min | 10 sec | | 10 sec |
| sun disappearance | 5 min | 10-25 min | 15-30 min | 3 sec | 12 sec | 15 sec |

■ SUN FUNCTIONNING

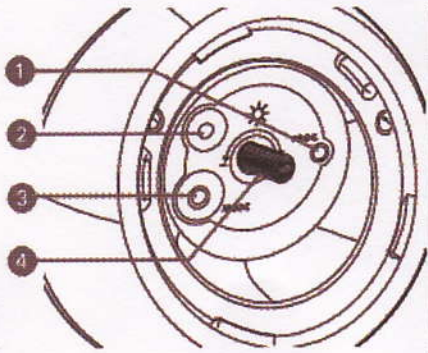
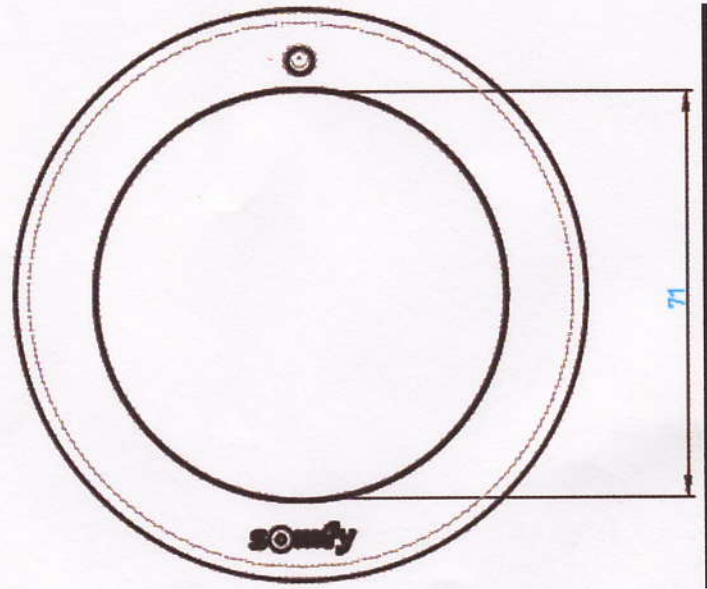
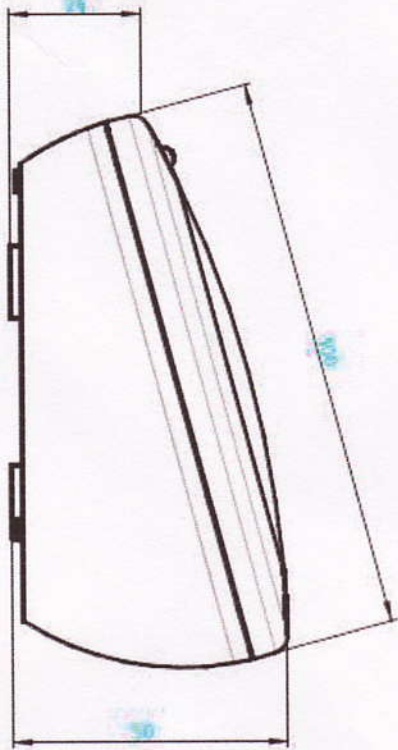
| | Altus / Orea / RTS external Receiver | Modulis Receiver | Oximo RTS |
|-----------------------|---|---|----------------------------------|
| SUN | Go to IP or to down limit if no IP | Go to D1(=IP) | Go to IP or do not move if no IP |
| NO SUN | Go to up limit | Go to Horizontal slats | Do not move |
| NO SIGNAL FROM SENSOR | Go to up limit after 1 Hour (wind protection) | Go to up limit after 1 Hour (wind protection) | Do not move* |

*in process of being changed

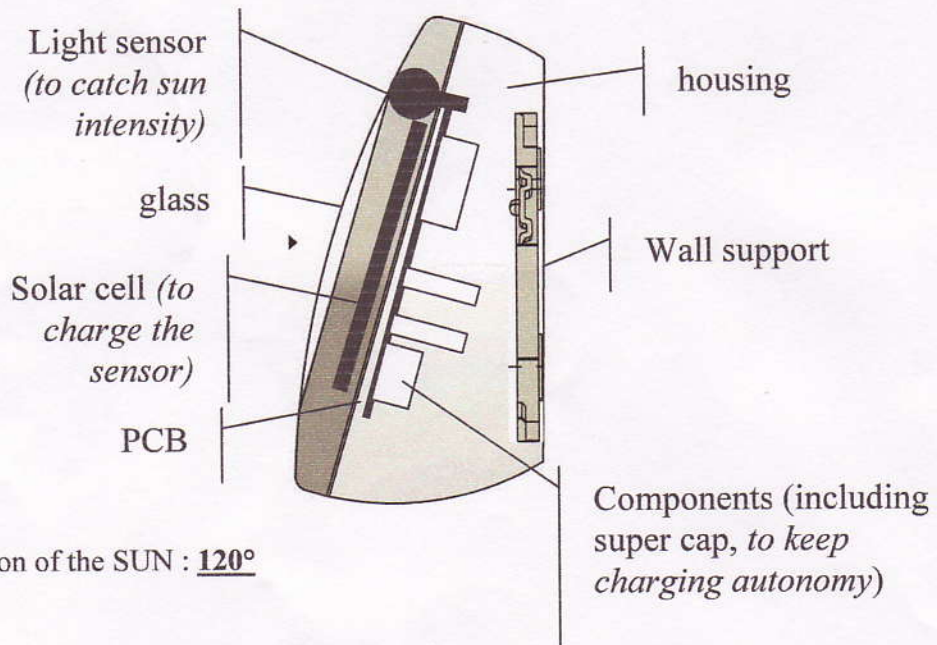
COMPATIBILITIES AT THE 10/08/06

| Motors | Controls | Receivers |
|---|--|--|
| Orea(230/120V) Altus diameter 50-60(230V/120V) LT RTS 2 LT CSI RTS 2 OXIMO RTS Sonesse 50 RTS Altea RTS | Telis soliris RTS Telis modulis soliris RTS Telis 4 soliris RTS Composio RTS Impressario RTS | Universal Receiver RTS Centralis UNO RTS Modulis Receiver RTS Radio platine RTS Centralis UNO RTS VB |

DESCRIPTION



1. Prog. button
2. LED to indicate sun level and current mode
3. Mode button to change mode (demo/normal)
4. Potentiometer

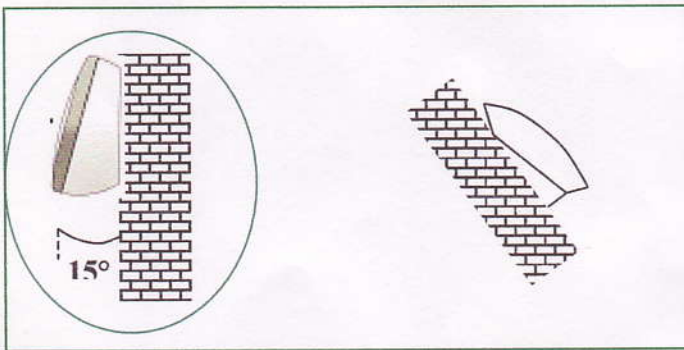


Angle of Detection of the SUN : 120°

TECHNICAL SPECIFICATIONS

| | | |
|--|---|--|
| Box | Material | ASA + PC (UV stabilised) PC (UV stabilised) (transparent part) |
| | Color | Bronzal Ultra light |
| | Size | 100 mm (diameter) |
| | Protection factor against solid & splash proof | IP 44 |
| Supply | Autonomous: Internal Supercap Rechargeable with solar cells | |
| Radio characteristics (RTS Protocole): | Frequency | 433.42 Mhz +/- 100kHz |
| | Radiated power | 0dBm or 1mW |
| | Modulation Type | ASK Type A1 |
| | Range in free field | 200m |
| Standard | EN 60730 | |
| | EN 301489-3 | |
| | EN 300220-3 | |
| Temperature range | Storing | -30 °C / + 70 °C |
| | Working | -30 °C / + 60 °C |
| Antenna | Built in | |
| Electro Magnetic compatibility | CEI 1000-4-2 | 8 kV |
| | CEI 1000-4-3 | lev III |
| CE Requirements | YES | |

INSTALLATION

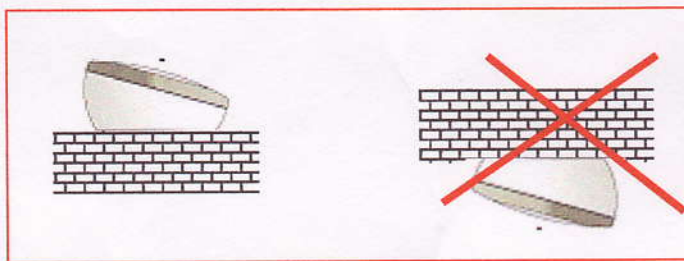


Installation recommendations :

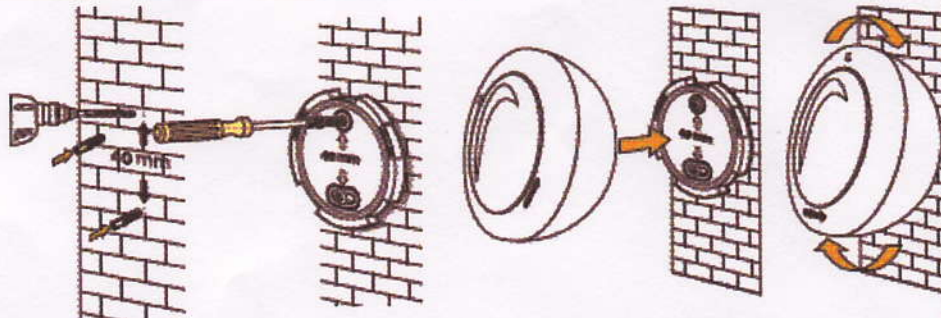
- Install the sensor vertically (**recommended**) and free from interference.

For optimum radio performances :

- Do not install the receiver against a metallic part.
- minimum distance between the receiver and the floor : **1,5 m.**
- minimum distance between the receiver and the roof : **30 cm.**
- minimum distance between the receiver and the transmitter : **30 cm.**
- minimum distance between two receivers : **20 cm.**
- maximum distance between a receiver and the sensor : **20 m.**



Wall Mounting:



R&D
Name:
Date:

KARSTEN
FESS

QUALITY
Name:
Date:

HENDRIK
SCHOEN

EDITOR
Name:
Date:

KEICHTINGER
ALEXANDRE