| Module | Module key | Group | Group ID | Description |
|---|---|---|---|---|
| **Sentiface** | 0x1XXX | Timings | 0x00 | Defines parameters for measurements and transmission behavior |
| **Sentiface** | 0x1XXX | Settings for opening detection | 0x02 | Defines measurement thresholds for triggering the alarm for temperature and relative humidity |
| **Sentiface** | 0x1XXX | Settings for tilt detection | 0x03 | Defines the behavior of the acceleration sensor |

Tables for cross-product modules (Senticom/Sentivisor) can be found in the Generic NFC and Downlink documentation.

Further information on configuring sensor communication can be found in the respective generic LoRaWAN® or mioty® documentation, depending on the version.

## Instructions valid for versions

| ARTICLE CODE | FEATURES |
|---|---|
| **S-JUNO-LOEU-ID** | JUNO tilt sensor, tilt detection and opening detection LoRaWAN® |
| **S-JUNO-IX-LOEU-ID** | INDUSTRIAL JUNO tilt sensor, tilt detection and opening detection LoRaWAN® |
| **S-JUNO-MIOTY-ID** | JUNO tilt sensor, tilt detection and opening detection mioty® |
| **S-JUNO-IX-MIOTY-ID** | INDUSTRIAL JUNO tilt sensor, tilt detection and opening detection mioty® |

| SENTIFACE: GROUP TIMINGS 0x00 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Resources** | Resource ID | Description | key (NFC/BLE) | Min | Max | Factory setting | Unit | Module key |
| **MEASUREMENT PERIOD** | 0x00 | Specifies the period in which the measured values are recorded. 5 minutes means that a measurement is always taken by the sensor after 5 minutes. | period | 1/5* | 360 | 30 | min | 1111 |
| **REGULAR TRANSMISSION INTERVAL** | 0x01 | Number of measurements performed up to transmission. | every | 1 | 64 | 6 | | 1111 |

*

5: For version S-JUNO-LOEU-ID and S-JUNO-MIOTY-ID

1: For version S-JUNO-IX-LOEU-ID and S-JUNO-IX-MIOTY-ID

| SENTIFACE: OPENING DETECTION GROUP 0x02 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Property** | Property ID | Description | key (NFC/BLE) | Min | Max | Default | Unit | Module Key |
| **OPENING COOLDOWN** | 0x00 | Specifies a period of time in which, after the triggering of an opening Further opening not again can be triggered (debounces the openings). The reference value is the last counted opening. | acool | 0 | 600 | 0 | sec | 1111 |
| **OPENING TIME ALARM** | 0x01 | Indicates how long the lid is open until an alarm is triggered. | oaaf | 5 | 2880 | 10 | min | 1111 |
| **OPENING MODE** | 0x02 | Describes which direction the sensor is facing when it is **closed** and which angles are defined for opening detection. Face up describes the status when the sensor is lying on the table and looking up at the ceiling. Settings from **0 to 7 with acceleration sensor**, **8 and 9 Hall sensor:**<br>• 0: off<br>• 1: Ultra low power. Fixed threshold value 50° . Closed when directed downwards (face down).<br>• 2: Ultra low power. Fixed threshold value 50° . Closed when directed upwards (face up).<br>• 3: Ultra low power. Fixed threshold value 50° . Closed | opmo | 0 | 8 | 1 | | 1111 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | when directed to the side (sidewards).<br>• 4: Extended tilt sensing. Adjustable threshold value. Closed when directed downwards (face down).<br>• 5: Extended tilt sensing. Adjustable threshold value. Closed when directed upwards (face up).<br>• 6: Extended tilt sensing. Adjustable threshold value. Closed when directed sideways.<br>• 7: Extended tilt sampling. Adjustable threshold value. Automatic calibration of the closed alignment.<br>• 8: Container is closed when solenoid is applied.<br>• 9: Container is open when solenoid is applied. | | | | | | |

| SENTIFACE: ADVANCED INCLINATION SETTINGS GROUP 0x03 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Property** | Property ID | Description | key (NFC/BLE) | Min | Max | Default | Unit | Module Key |
| **SAMPLING PERIOD** | 0x00 | Specifies how often the acceleration sensor determines the angle. The higher the frequency, the higher the power consumption. | tspe | 2 | 600 | 2 | s | 1111 |
| **TRIGGER LEVEL** | 0x01 | Specifies the angle from which an opening is counted or an alarm is triggered. | ttle | 5 | 180 | 20 | ° | 1111 |
| **TRIGGER HYSTERIA** | 0x02 | Hysteresis value for the opening angle | tthy | 1 | 90 | 4 | ° | 1111 |

Example downlinks:

| Setting | Downlink |
|---|---|
| **period = 10** | 00 11 11 00 00 00 00 00 0A |
| **every = 5** | 00 11 11 00 01 00 00 00 05 |
| **alarm_act = 0** | 00 11 11 01 00 00 00 00 00 |