FLEXLOG

ORBIT G2© - Sensor Gateway
Item number: CMS02-SG

Description

The basic ORBIT G2 sensor can be easily mounted on your application and measures environmental data such as temperature, humidity and noise level, as well as acceleration and angular velocity in 3 axes. In addition, the ORBIT G2 can be used to evaluate the data in a decentralised manner so that it is no longer necessary to transmit all the raw data collected. The connection to the network is made via Ethernet. Several ORBIT G2s can also be connected in series via the integrated switch. The 24V power supply ensures a stable connection without the need to change the battery. Digital trigger inputs allow measured values to be assigned to external events or measurements to be saved only for external events.

Description of functions

IIoT-Cloud
Collect the results of your data evaluation automatically, e.g. in the SAP cloud.

Web-based configuration
Configuration via platform-independent web application and offline mass configuration.

Integrated Ethernet switch
Easily switch several sensors into series. No separate infrastructure necessary.

3D angular velocity
Record the current angular velocity in three axes.

3D acceleration measurement
Record the current acceleration in three axes.

Modern Internet protocols
Control / configuration of the system and transmission using state-of-the-art internet protocols (e.g. MQTT).

Extended storage capacity
Extensive data collection through increased storage capacity.

Decentral data evaluation
A local data evaluation can be programmed independently by the user, with „Python".

Measurement of environment data
Determination of e.g. temperature, humidity and noise level.

General data

Item number	CMS02-SG
Dimensions [mm]	80x55x25
Weight	62g
Body material	Plastic (Flame Retardant ABS POLYLAC® PA-765A)
Type of installation	Screw connection
Degree of protection	IP20
CE-labelling	Yes
Interfaces	Ethernet (IPv4/IPv6), 2 digital inputs, reset-button
Ethernet switch	2 ports
Characteristics	Static IP; DHCP; DNS; NTP
Data exchange	MQTT; FTP; REST

Sensors

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Noise level	Signal-to-noise ratio SNR: 65 dBA Sensitivity -26 dB FS ± 1 dB
Temperature	Measuring range -40 to 125°C Accuracy < ± 1°C (at operating point ± 0.2°C)
Humidity	Accuracy ± 3%
3D-Acceleration	Range ± 4g
3D-Gyroscope	Range ± 2000°/s

Connections

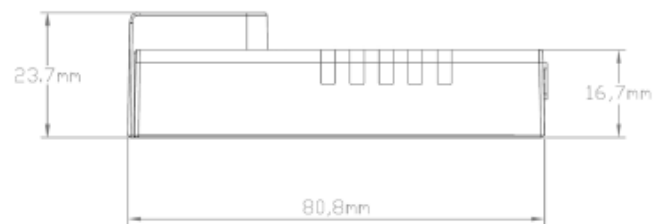|	
Ethernet switch	2x RJ45-Ports 10/100MBit
Digital trigger input	1x Würth WR-TBL 3221 4-pin
Power connection	1x Würth WR-TBL 3221 2-pin

Power supply

Voltage	24V DC
Power consumption	Max. 100mA

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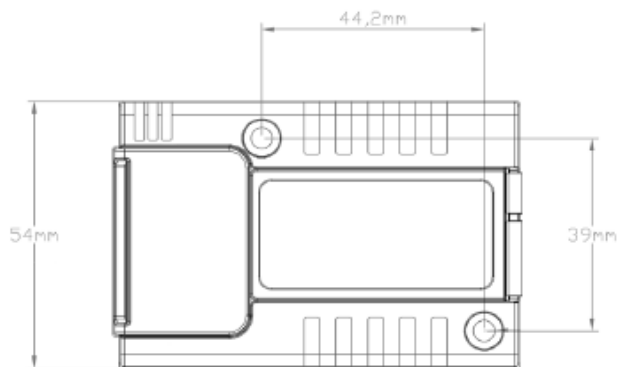
Plan view

Side view
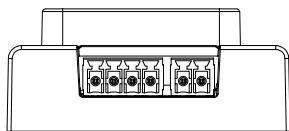
Rear view

Front view

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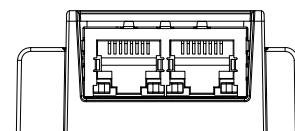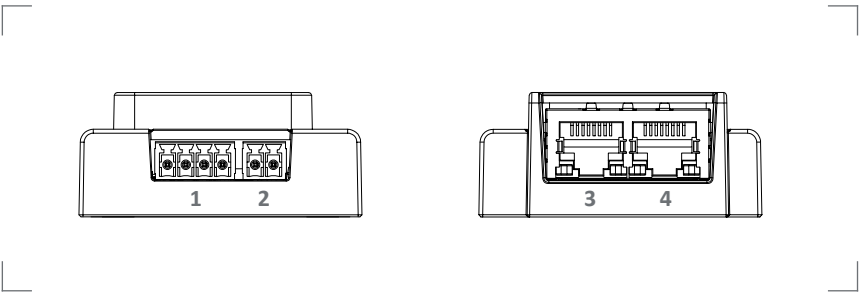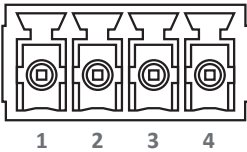
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Wiring diagram

1. 4-pin socket
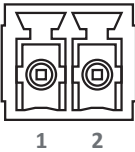2. 24V supply voltage
3. RJ45 socket
4. RJ45 socket

Pin assignment

4-pin socket

Pin	Signal
1	24V
2	Trigger input 1
3	Trigger input 2
4	GND

24V supply voltage

Pin	Signal
1	24V
2	GND