

adnexo
we connect



ax-opto

Distance measuring sensor with LoRaWAN
wireless technology

Specifications



Description

The ax-opto is a distance measuring sensor with LoRaWAN wireless technology. It measures distances of up to 1.3m and can be used for a variety of applications such as waste management, fill level or seat occupation measurement. The optical sensor measures a grid of nine points. This way of measuring allows to measure in enclosed areas. The ax-opto has a battery life span of up to three years depending on the configuration and can be used both indoors and outdoors.

Measurement Technology

Optical sensor

Measurement Range

0.2m – 1.3m

Measurement Intervals

10min – 12h

Measurement Triggers

Periodic Intervals or manually by the magnetic switch

Sending Interval

10min – 12h

Communications

LoRaWAN 1.02, 868MHz EU

Power Supply

Standard, 2x AA alkaline batteries

External power supply on request only

Battery Lifespan

The battery lifespan depends on the radio reception, the measurement and the sending interval. With good reception and an average measurement rate of 10min the battery lasts up to half a year. If the measurement interval is at the rate of 1h the battery will last up to three years. Contact us for estimations based on your individual use case.

Available Versions

Indoor and outdoor versions available. Casing box can be adjusted on request regarding material, colour and suspension facility. If needed we can equip the sensors with an external antenna. More information: www.adnexo.ch/hardware/ax-opto

Customization

Do you need a feature for a specific use case? We can consult you on what would be best for your specific application. Since we develop hard- and software inhouse we are able to customize the sensor to meet your specific goals. Contact us under info@adnexo.ch

Product Series

The ax-dist is part of the ax-series. The series includes the ax-dist/ax-opto (distance measurement), ax-caeli (air temperature and humidity measurement) and ax-aeria (air quality sensor) and ax-tracer (tracking). All adnexo ax-sensors can be configured over LoRaWAN downlinks. All APIs and message formats are laid open. Therefore, the sensors can be integrated in any software solution.

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