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DK 7030.111

CMC III sensors

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FRIEDHELM LOH GROUP

DK 7030.111 - CMC III sensors

CMC III temperature/humidity sensor



Features

Model No.	DK 7030.111
Design	Temperature/humidity sensor
Product description	CMC III sensors are used for monitoring the physical environment and can be connected directly to the PU via a CAN bus connection cable RJ45. The sensors may also be linked together to form a bus.
Benefits	Fast connection and automatic detection via plug & play Power is supplied via the CAN-BUS interface.
Applications	Enclosure monitoring in IT, industry and facility management Monitoring of enclosures, rooms and containers in the IT environment
Function principle	Settings can be made via the CMC III processing unit or IoT interface The CMC III temperature/humidity sensor monitors the ambient temperature and air humidity in the enclosure. The sensor has an integrated temperature sensor and an integrated air humidity sensor.
Material	Plastic Front: Smooth Enclosure: Textured
Colour	Front: RAL 9005 Enclosure: RAL 7035

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Features

Supply includes	Sensor Mounting plate Assembly parts Temperature/humidity sensor
Connection to the CAN bus	Direct
Interfaces	2 x RJ45 CAN bus
No. of participants per IoT interface (max.)	32
No. of participating PU compact (max.)	4
No. of participating PU (max.)	32
No. of PDU devices (max.)	16
Measuring technique	Temperature sensor chip Humidity sensor chip
Dimensions	Width: 80 mm Height: 30 mm Depth: 40 mm
Operating temperature range	0 °C...55 °C
Ambient humidity (non-condensing)	5...95 %
Packs of	1 pc(s).
Net weight	0.1 kg
Gross weight	0.16 kg
PCF per pack (cradle-to-gate)	0.8 kg CO2 eq (Cat B)
CRA risk class	Default (Low Risk)
Note on PCF category	Category B: PCF value (cradle-to-gate) based on the product weight, approximately calculated and self-declared
Customs tariff number	90268020
ETIM 9	EC002627
ECLASS 8.0	27189253

Features

Product description	DK CMC III Temperature/humidity sensor, WHD: 80x28x40 mm

Approvals

Approvals	UL + C-UL (listed)
Explanations	Manufacturer's declaration Declaration of conformity

Tender text

7030.111
CMC III temperature/humidity sensor with CAN bus
Packs of 1
Compact plastic housing with ventilated front in RAL 9005.
Housing in RAL 7035,
The sensor has two RJ45 connections with an integrated CAN bus. The sensor is automatically detected by the
CMC III system, the Processing Unit, and is provided with a sequential number in the bus sequence. Integrated multi-colour LED as status display.
An electronic temperature sensor is integrated into the sensor to measure the airflow temperature.
An electronic humidity sensor is also integrated to measure the relative air humidity in the airflow.
The power supply is ensured by connection to the CAN bus for the Processing Unit.
The warning and alarm limit values can be set via the software for the CMC III Processing Unit, however they are saved in the sensor itself.
Technical specifications - Temperature sensor:
Temperature measuring range:
0 °C to 55 °C
Resolution: 0.1 °K
Technical specifications - Humidity sensor:
Humidity measuring range: 5% to 95% relative humidity
Resolution: 1% relative humidity
Technical specifications:
CAN bus jacks RJ45: 2
Protection category: IP 30 to IEC 60 529
Temperature application range:
0 °C to 55 °C
Humidity range:
5% to 95% relative humidity, non-condensing
WxHxD: 80 x 28 x 40 mm
Included in the pack: Sensor, quick reference guide and universal mounting set

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