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DK 7030.140 CMC III sensors

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FRIEDHELM LOH GROUP



DK 7030.140 - CMC III sensors

CMC III analog airflow sensor

Features

| | |
|---------------------------|--|
| Model No. | DK 7030.140 |
| Design | Analog airflow 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 airflow sensor has an external sensor mounted in the airflow. The sensor measures the air flow from heat losses, and can detect fluctuations in the flow. Application: Fans, filters, climate control units |
| Material | Plastic Front: Smooth Enclosure: Textured |
| Colour | Front: RAL 9005 Enclosure: RAL 7035 |
| Supply includes | Sensor Mounting plate Assembly parts External airflow sensor including assembly parts |
| Connection to the CAN bus | Direct |
| Interfaces | 2 x RJ45 CAN bus Terminal |

Features

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|--|--|
| No. of participants per IoT interface (max.) | 10 |
| No. of participating PU compact (max.) | 4 |
| No. of participating PU (max.) | 10 |
| No. of PDU devices (max.) | 5 |
| Number subscribers per PDU note | Max. 5 p. for power supply with PoE |
| Measuring technique | Differential temperature measurement |
| Dimensions | Width: 110 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 | 0.53 kg |
| Gross weight | 0.536 kg |
| PCF per pack (cradle-to-gate) | 1.6 kg CO2 eq (Cat B) |
| Note on PCF category | Category B: PCF value (cradle-to-gate) based on the product weight, approximately calculated and self-declared |
| Customs tariff number | 85319000 |
| ETIM 9 | EC002627 |
| ECLASS 8.0 | 27189253 |
| Product description | DK CMC III Analog airflow sensor, WHD: 110x30x40 mm |

Approvals

| | |
|-----------|--------------------|
| Approvals | UL + C-UL (listed) |
|-----------|--------------------|

Approvals

Explanations

Manufacturer's declaration
Declaration of conformity

Tender text

7030.140

CMC III analogue airflow sensor with CAN bus

Packs of 1

Compact plastic housing with ventilated front in RAL 9005.

Housing in RAL 7035,

Sensor probe (blue) is connected to the cable externally via a plug.

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.

The sensor measures and monitors the current analogue air speed, which can be displayed by the CMC III. For example, the degree of soiling of a filter mat can be displayed over a period of time.

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 - Sensor probe:

Mode of operation: Differential temperature measuring process

Rated voltage: 24 V DC

Sensor probe interface: 4 to 20 mA

Measurement range: 0.5 to 15 m/s

Protection category: IP 65

Technical specifications:

Jack for airflow sensor: 1

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: 110 x 30 x 40 mm

Included in the pack: Sensor, temperature probe with cable and plug, quick reference guide and universal mounting set