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DK 7030.150

CMC III sensors

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FRIEDHELM LOH GROUP

DK 7030.150 - CMC III sensors

CMC III analog differential pressure sensor

Features

Model No.	DK 7030.150
Design	Analog differential pressure 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 differential pressure sensor measures the air pressure at two points in the room and displays the pressure difference between the two measuring points. The two points in the room are defined using a thin hose connected to the sensor. Application: Cold aisle containment, raised floor
Material	Plastic Front: Smooth Enclosure: Textured
Colour	Front: RAL 9005 Enclosure: RAL 7035
Supply includes	Sensor Mounting plate Assembly parts Analog differential pressure sensor
Connection to the CAN bus	Direct
Interfaces	2 x RJ45 CAN bus

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Features

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	Differential pressure 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	0.4 kg
Gross weight	0.539 kg
PCF per pack (cradle-to-gate)	1.6 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	85319000
ETIM 9	EC002627
ECLASS 8.0	27189253
Product description	DK CMC III Analog differential pressure sensor, WHD: 110x30x40 mm

Approvals

Approvals	UL + C-UL (listed)

Approvals

Explanations	Manufacturer's declaration Declaration of conformity

Tender text

7030.150
CMC III analogue differential pressure 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.
The sensor is used to monitor the differential pressure for climate control applications, such as raised floor cooling, cold aisle enclosure, etc.
The sensor measures at two measuring points which can be defined via air hoses, e.g. in the cold aisle.
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:
Mode of operation: Differential pressure sensor
Pressure measuring points: 2
Measurement range: -500 Pa to +500 Pa
Measurement precision: +/- 3%
Resolution: 1 Pa
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, quick reference guide, 5 m air hose and universal mounting set

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