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## DK 7010.110 Sensors

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FRIEDHELM LOH GROUP



# DK 7010.110 - Sensors for CMC III, PDU, LCP, IoT interface

The temperature sensor monitors the ambient temperature in the enclosure.

## Features

|                             |  |
|-----------------------------|--|
| Model No.                   | DK 7010.110  |
| Design                      | Temperature sensor   |
| Benefits                    | Fast connection and automatic detection via plug & play<br>Power is supplied via the CAN-BUS interface.  |
| Applications                | Enclosure monitoring in IT, industry and facility management<br>Monitoring of enclosures, rooms and containers in the IT environment   |
| Function principle          | The sensor monitors the ambient temperature in the enclosure<br>Settings can be made via the CMC III processing unit or IoT interface<br>With a passive airflow the integrated sensor in the enclosure can be used. For applications without an active airflow, the external NTC sensor provided must be connected.<br>Measurement range for external sensors: -40 °C...+80 °C |
| Material                    | Plastic  |
| Surface finish              | Front: Smooth<br>Enclosure: Textured   |
| Colour                      | RAL 9005   |
| Supply includes             | External temperature sensor with connection cable and connector<br>NTC sensor, length 1.80 m<br>max. cable length 2 m  |
| Connection to the CAN bus   | Direct   |
| Interfaces                  | 2 x RJ45 CAN bus   |
| Dimensions                  | Width: 80 mm<br>Height: 30 mm<br>Depth: 40 mm  |
| Operating temperature range | 0 °C...55 °C   |

## Features

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|                                   |   |
|-----------------------------------|---|
| Ambient humidity (non-condensing) | 0...95 %  |
| Packs of                          | 1 pc(s).  |
| Net weight                        | 0.111 kg  |
| Gross weight                      | 0.163 kg  |
| Customs tariff number             | 90269000  |
| ETIM 9                            | EC002627  |
| Product description               | DK Temperature sensor, connection via CAN bus interface, WxHxD: 80x30x40 mm, RAL 9005 |

## Approvals

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|              |                           |
|--------------|---------------------------|
| Approvals    | UL + C-UL (listed)        |
| Explanations | Declaration of conformity |

# Tender text

Temperature sensor with CAN-Bus

Art. 7010110

PU = 1 piece

Compact plastic enclosure with ventilated front, RAL 9005.

The sensor has two RJ45 connectors with an integrated CAN bus. The sensor is automatically recognized by Rittal embedded devices and assigned a consecutive number within the bus sequence.

Integrated multi-color LED as status indicator.

An NTC temperature sensor for temperature measurement in the air flow is integrated in the sensor housing.

An external NTC temperature sensor with connection cable is also included.

The internal sensor can be used simultaneously with the external sensor.

Power is supplied via the connection to the CAN bus.

The warning and alarm thresholds can be set via the software of the Rittal embedded devices, but are stored in the sensor itself.

Technical data:

Temperature measuring range (internal sensor): + 0 °C to + 55 °C

Temperature measuring range (external sensor): - 35 °C to + 90 °C

Measurement accuracy internal sensor: +/- 2°K at 25°C

Measurement accuracy external sensor: +/- 1°K at 25°C

Resolution: 0.1°K

Socket for external sensor: 1

CAN bus sockets RJ45: 2

Degree of protection: IP 20 according to EN 60 529

Operating temperature range:

0 °C to + 55 °C

Operating humidity range:

5% to 95% RH non-condensing

WxHxD: 80 x 28 x 40 mm

Included in the PU: Sensor, temperature probe with 2 m connection cable and

plug, quick guide and universal mounting kit