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## DK 7010.160 Sensors

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SOFTWARE & SERVICES

FRIEDHELM LOH GROUP



# DK 7010.160 - Sensors for CMC III, PDU, LCP, IoT interface

The access monitoring sensor uses infrared light to monitor whether the door of an enclosure is open or closed. An integrated vibration sensor emits an alarm if vandalism is detected.

## Features

Model No.	DK 7010.160
Design	Access monitoring sensor
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	<p>The sensor has an integrated infrared transmitter and receiver. The access monitoring sensor uses infrared light to monitor whether the enclosure door is open or closed.</p> <p>The access monitoring sensor monitors the gravitational forces (G-forces) acting on the three x, y and z axes.</p> <p>The sensor is mounted in the enclosure and pointed at the door so that the light is reflected by a reflector strip on the door.</p> <p>The sensor is mounted on the enclosure frame and vibrations acting on the enclosure are transmitted to the sensor.</p> <p>Settings can be made via the CMC III processing unit, PDU or IoT interface</p>
Material	Plastic
Surface finish	Front: Smooth Enclosure: Textured
Colour	RAL 9005
Supply includes	Sensor Mounting plate Assembly parts
Connection to the CAN bus	Direct
Interfaces	2 x RJ45 CAN bus

# Features

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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	0.063 kg
Gross weight	0.163 kg
Customs tariff number	85319000
ETIM 9	EC002627
Product description	DK Access monitoring sensor, connection via CAN bus interface, RAL 9005: WHD: 110x30x40 mm, RAL 9005

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# Approvals

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

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# Tender text

Art. 7010160

Access Monitoring sensor with CAN-Bus

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 the Embedded Device and assigned a consecutive number within the bus sequence. Integrated multi-color LED as status indicator

The sensor reports whether the rack door is open or closed. It is also possible

to monitor side panels, top covers or room doors. The sensor has an infrared diode as transmitter and an infrared receiver integrated

If the infrared light is reflected by e.g. a door, the access sensor reports the door as closed

The distance between the sensor and the door can be set via the software of the Embedded

Device, but is stored in the sensor itself

The sensor measures and monitors acceleration in three axes x, y and z

The position of the enclosure is also monitored, e.g. if a cabinet has fallen over

Power is supplied via the connection to the CAN bus to the Embedded Device

Technical data infrared sensor:

Operating principle: optical

Transmitter: infrared diode

Receiver: infrared receiver

Technical data vandalism sensor:

Operating principle: acceleration sensor

Monitoring: x, y and z axis

Measuring range: -7 to +7 g

Resolution: 0.1 g

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: 110 x 30 x 40 mm

Included in the PU:

Sensor, quick guide