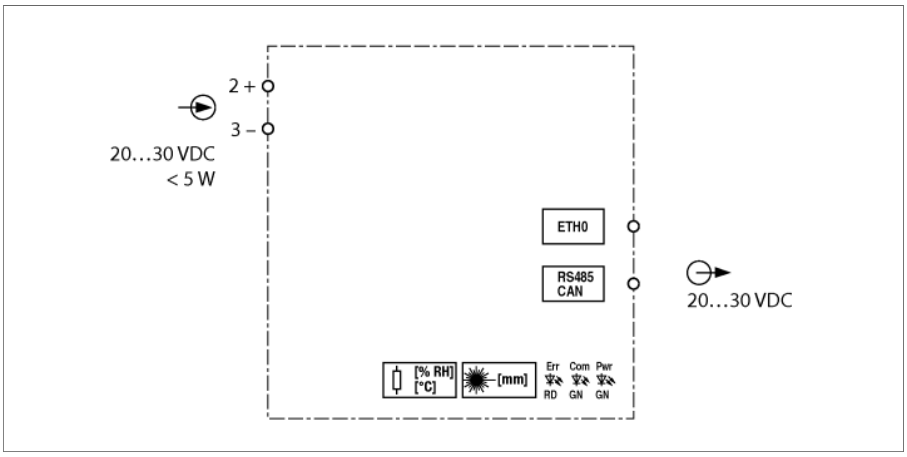
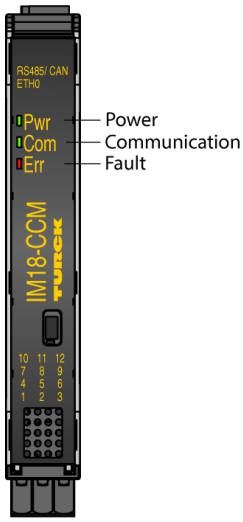
Cabinet Guard
Internal and External Sensors
IM18-CCM40-MTI/24VDC





The cabinet guard IM18-CCM40-MTI/24VDC uses integrated sensors to monitor temperature, relative humidity and the distance from the control cabinet door. For example, the information can be transferred to higher-level systems via the Ethernet interface.

External sensors used for condition monitoring, such as vibration sensors or additional temperature sensors, can be connected via CAN or via the RS485 interface.

The operating system integrated in the device is the Linux distribution Debian. This enables the smart preprocessing of data through the integration of tailored programs. The device functions can be programmed as required.

The hardware of the cabinet guard can also be scaled to facilitate certain condition monitoring tasks.

To save space, the narrow, 18-mm housings can be easily mounted in any control cabinet on a DIN rail in accordance with EN 60715.

The device is equipped with removable spring-type terminals.

Product from laser class 1: The device complies with standards 21 CFR 1040.10 and 1040.11 with the exception of IEC 60825-1 Ed. 3, as described in Laser Notice No. 56 of May 8, 2019.

- Microprocessor: TI Sitara 32-bit ARM Cortex-A8
- RAM: 1 Gbit 128 MB DDR3L
- Flash: 4 GB eMMC
- Debian operating system
- Interfaces: Ethernet, CAN, RS485
- Temperature Detection
- Moisture detection
- Proximity detection
- Supply voltage 24 VDC
- DIN rail mounting

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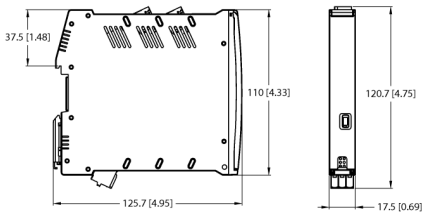

Type	IM18-CCM40-MTI/24VDC
ID	100018257
Nominal voltage	24 VDC
Operating voltage	20…30 VDC
Moisture Sensor	
Accuracy max.	± 5 % relative humidity in the range 10…90 %
Temperature Sensor	
Max. accuracy	±2 °C
Distance Sensor	
Measuring range	45…1200 mm
Accuracy	± 5 %
Mechanical data	
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	0…+70 °C
Storage temperature	-25…+75 °C
Dimensions	120 x 17.5 x 128 mm
Weight	201 g
Mounting instructions	DIN rail (NS35)
Housing material	Polycarbonate/ABS
Electrical connection	Removable spring-type terminals, 3-pin
Terminal cross-section	2.5 mm²

Environmental conditions

Operating height	Up to 2000 m above sea level
Pollution degree	II
Standards used	
Voltage resistance and insulation	
	EN 50178
	EN 61010-1
Shock	
	EN 60068-2-6
	EN 60068-2-27
Temperature	
	EN 60068-2-1 Ad
	EN 60068-2-2 Bd
	EN 60068-2-1
Air humidity	
	EN 60068-2-38
EMC	
	EN 61000-4-2
	EN 61000-4-3
	EN 61000-4-4
	EN 61000-4-5
	EN 61000-4-6
	EN 61000-4-8
Emission	
	CISPR16

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