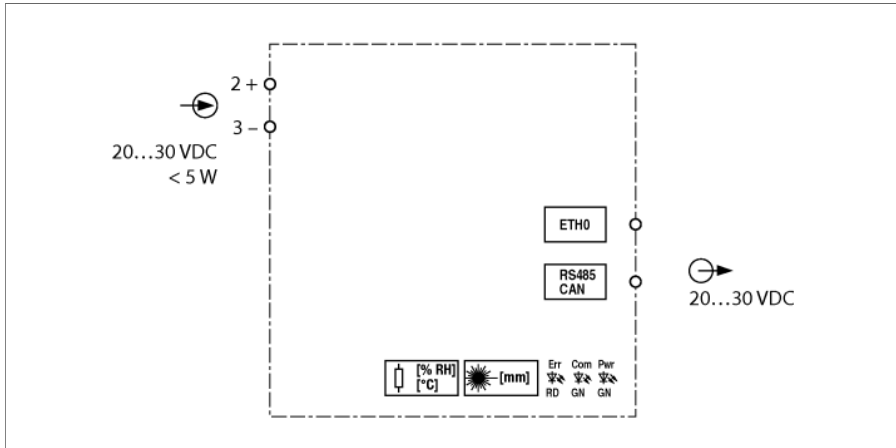


Cabinet Guard Internal Sensors IM18-CCM45-MTI/24VDC



The cabinet guard IM18-CCM45-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.

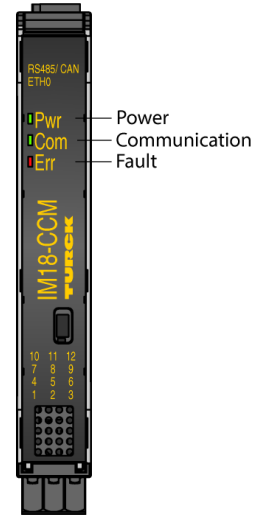
The operating system integrated in the device is the Linux distribution Debian. Intelligent data processing is made possible through integration with PROFINET, EtherNet/IP and Modbus TCP.

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
- PROFINET Device, EtherNet/IP Device or Modbus TCP Server
- Temperature Detection
- Moisture detection
- Proximity detection
- Supply voltage 24 VDC
- DIN rail mounting
- Suitable for use in Zone 2

ID	100051370
Nominal voltage	24 VDC
Operating voltage U_s	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 %

Important note The values provided below indicate the relevant markings associated with the product's Ex certificates.

Mechanical data	
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	-25...+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	Plastic, Polycarbonate/ABS
Electrical connection	Removable spring-type terminals, 3-pin
Terminal cross-section	2.5 mm ²

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

