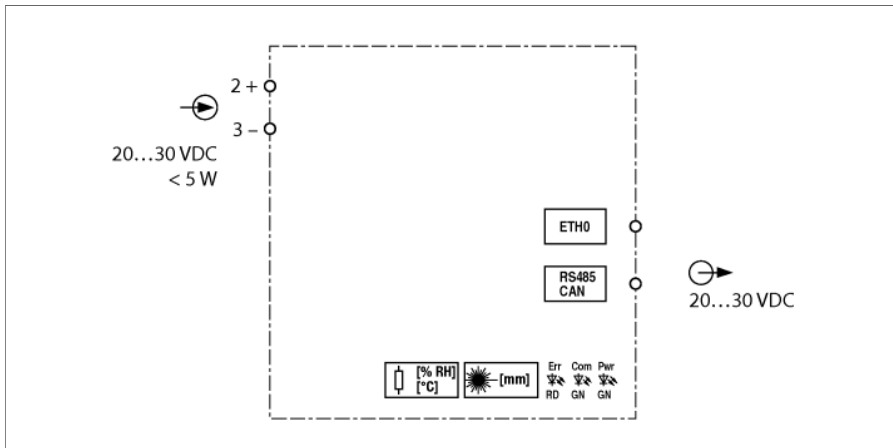


Cabinet Guard

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.

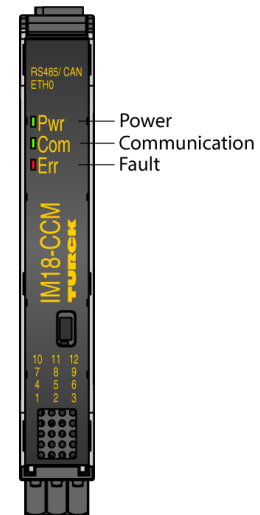
The operating system integrated in the device is the Linux distribution Debian. This enables the smart preprocessing of data through the integration of tailored programs. The device functions can be programmed as required.

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

Type	IM18-CCM40-MTI/24VDC	
ID	100018257	
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 %	
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	Plastic, 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

