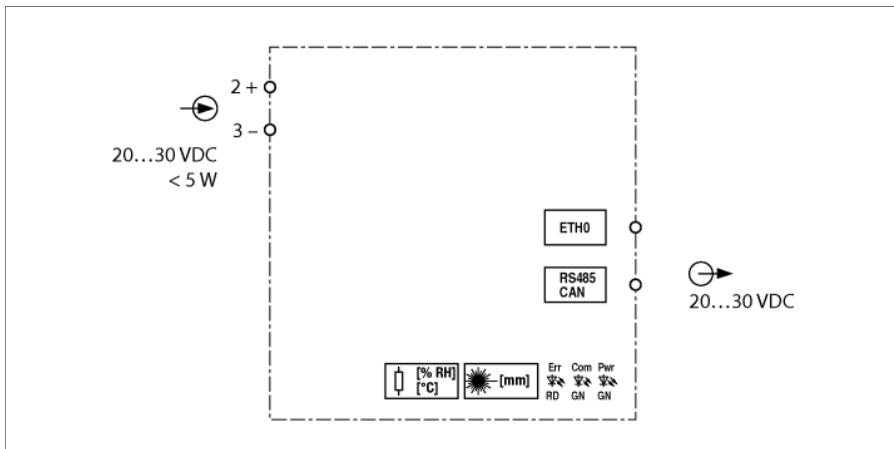


Cabinet Guard

Internal and External Sensors

IM18-CCM40-MTI/24VDC



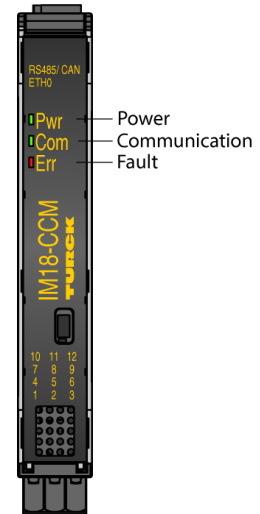
The cabinet guard IM18-CCM30-MTI/24VDC monitors temperature, relative humidity and the distance from the control cabinet door using integrated sensors. The information can, for example, be transferred to higher-level systems via the Ethernet interface using Modbus TCP.

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

The operating system integrated in the device is the Linux distribution Debian. Customized programs have been integrated in the device, enabling data to be intelligently preprocessed. 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.



- **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**

Cabinet Guard

Internal and External Sensors

IM18-CCM40-MTI/24VDC

Type designation	IM18-CCM40-MTI/24VDC
Ident no.	100018257
Nominal voltage	24 VDC
Operating voltage range	20...30 VDC
Moisture Sensor	
Accuracy max.	+/- 5 % RF in the range 10...90%
Temperature Sensor	
Max. accuracy	+/- 2 °C
Distance Sensor	
Measuring range	45...1200 mm
Accuracy	+/- 5 %
Protection class	IP20
Flammability class acc. to UL 94	V-0
Ambient temperature	0...+70 °C
Storage temperature	-25...+75 °C
Dimensions	120 x 18 x 128 mm
Weight	201 g
Mounting instructions	DIN rail (NS35)
Housing material	Polycarbonate/ABS
Electrical connection	Removable spring type terminals, 2-pin
Terminal cross-section	2.5 mm ²
Environmental conditions	

Operating altitude	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
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

