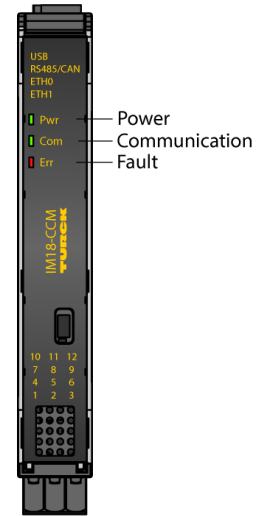
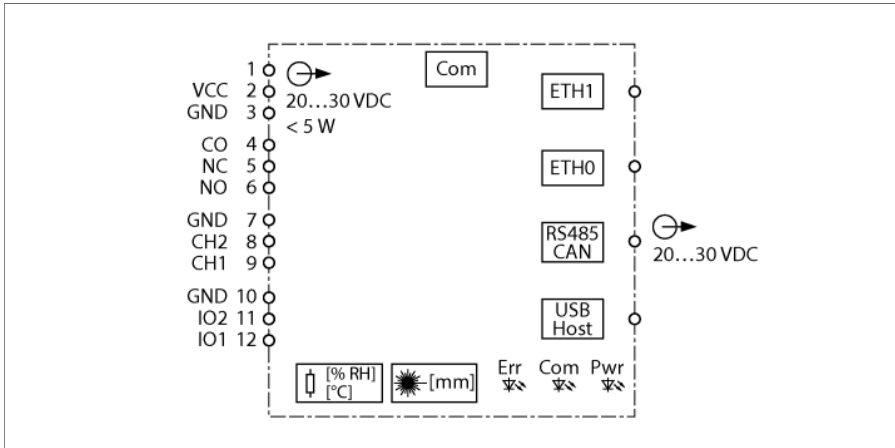


**Cabinet Guard  
Internal and External Sensors  
IM18-CCM50-MTI/24VDC**



The cabinet guard IM18-CCM50-MTI/24VDC monitors temperature, relative humidity and the distance from the control cabinet door using integrated sensors. For example, the information can be transferred to higher-level systems via the Ethernet interface.

The following interfaces are provided on the device:

- 2 Ethernet interfaces
- CAN/RS485 interface
- 2 GPIOs
- 2 analog inputs (configurable as current or voltage input)
- Changeover contact relay
- USB interface

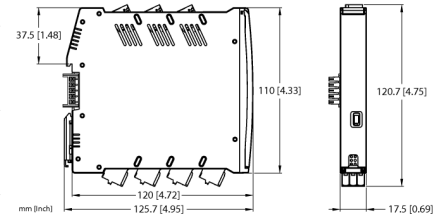
The operating system integrated in the device is the Linux distribution Debian. Customized programs have been integrated in the device, enabling data to be intelligently preprocessed. The device functions can be programmed as required.

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: AM3358BZCZA100 (TI Sitara 32-Bit ARM Cortex-A8)**
- **RAM: 8 Gbit 1 GB DDR3L**
- **Flash: 8GB eMMC**
- **Debian operating system**
- **Interfaces:**
  - 1 × 1 GB Ethernet
  - 1 × 100 MB Ethernet
  - 1 × CAN/RS485
  - 2 digital inputs or outputs
  - 2 analog inputs
  - 1 × relay
- **Temperature detection**
- **Moisture detection**
- **Proximity detection**
- **Supply voltage 24 VDC**
- **DIN rail mounting**

**Cabinet Guard**  
**Internal and External Sensors**  
**IM18-CCM50-MTI/24VDC**

<b>Type designation</b>	IM18-CCM50-MTI/24VDC
Ident no.	100022405
<b>Nominal voltage</b>	24 VDC
Operating voltage range	20...30 VDC
<b>Input circuits</b>	
GPIO	input: high 12...30V, 2,5...6,5mA low: 0...8V, 0...1mA output: 1,6V bei 100mA, 2,5V bei 200mA
Voltage input	0...5/10/20 VDC
Input current	0...35 mA
<b>Output circuits (digital)</b>	1 x relay (change-over)
Output switching voltage relay	≤ 48 VDC
Switching current per output	≤ 2 A
<b>Measuring accuracy (including linearity, hysteresis and repeatability)</b>	≤ 2 % of full scale
<b>Moisture Sensor</b>	
Accuracy max.	+/- 5 % RF in the range 10...90%
<b>Temperature Sensor</b>	
Max. accuracy	+/- 2 °C
<b>Distance Sensor</b>	
Measuring range	45...1200 mm
Accuracy	+/- 5 %
<b>Protection class</b>	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	223 g
Mounting instructions	DIN rail (NS35)
Housing material	Polycarbonate/ABS
Electrical connection	Removable spring type terminals, 2-pin
Terminal cross-section	2.5 mm <sup>2</sup>
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