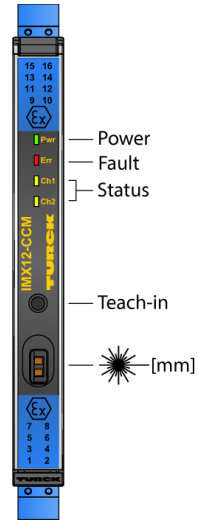
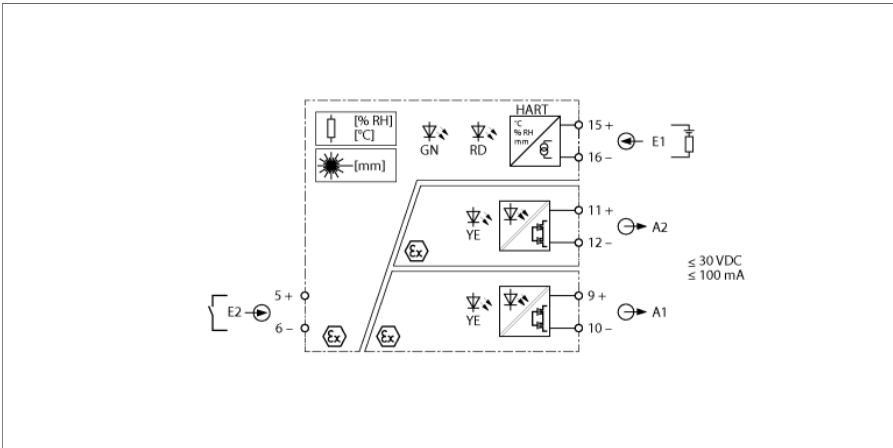


# Cabinet Guard Internal Sensors IMX12-CCM05-MTI-1I2T-HC/L/CC



The cabinet guard IMX12-CCM05-MTI-1I2T-HC/L/CC monitors preset environmental limits inside the control cabinet. The environmental conditions are detected by integrated humidity and temperature sensors, and a triangulation sensor that detects if the control cabinet door is not closed correctly. If the measured values exceed or fall below the set limit values, a fault signal appears on the LED display or is reported to the higher-level control system via the switching outputs and the HART interface.

The device is supplied loop powered from the 4...20 mA current interface. When used in Ex areas, the device can be supplied via the TURCK isolating transducer IMX12-AI01-...

Teach-in can be performed manually on the device; extended parameterization is possible via the HART interface.

The device is equipped with eight spring-type terminals for connecting the HART interface or power supply and switching outputs and can be mounted on a DIN rail acc. to EN 60715.

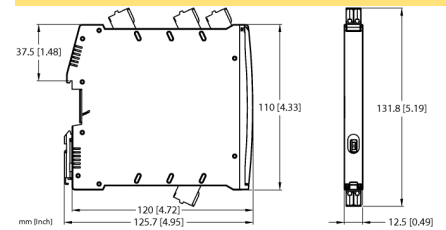
Furthermore, the device has four front-mounted LEDs to display the operating status (green), the fault signal (red flashing acc. to NE43) and the states of the switching outputs (2 x yellow).

The device is equipped with removable spring-type terminals.

- 2 potential-free contacts
- Temperature detection
- Moisture detection
- Detection of distance to control cabinet door
- Galvanic isolation of outputs (A1/A2)
- Removable spring-type terminals
- ATEX, IECEx

Type	IMX12-CCM05-MTI-112T-HC/L/CC
ID	100030580
Operating voltage $U_s$	10...28 VDC
Power consumption	$\leq 0.32$ W
Installed sensors CCM	Distance sensor 4...130 cm Humidity sensor 0...80 % rel. hum. Temperature sensor -25...+70 °C
PhotoMOS	Switching voltage: $\leq 30$ VDC Switching current per output: $\leq 0.1$ A
Moisture Sensor	
Accuracy max.	$\pm 2$ % relative humidity in the range 10...90 %
Temperature Sensor	
Max. accuracy	$\pm 0.2$ °C
Distance Sensor	
Measuring range	40...1300 mm
Relative accuracy	$\pm 1.5$ mm
Absolute accuracy	$< \pm 2$ mm
Important note	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply.
Ex approval acc. to conformity certificate	IBEXU 16 ATEX 1005
Application area	II 2G
Ignition protection category	Ex ib op is IIC T4 Gb
Displays/Operating elements	
Operational readiness	Green
Switching state	Yellow
Error indication	red

## Dimensions



Mechanical data			
Protection class	IP20		
Flammability class acc. to UL 94	V-0		
Ambient temperature	-25...+70 °C		
Storage temperature	-25...+80 °C		
Dimensions	120 x 12.5 x 128 mm		
Weight	143 g		
Mounting instructions	DIN rail (NS35)		
Housing material	Plastic, Polycarbonate/ABS		
Electrical connection	Removable spring-type terminals, 2-pin		
Terminal cross-section	0.2...2.5 mm <sup>2</sup> (AWG: 24...14)		
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		NE21
			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	

**Accessories**

Type code	Ident-No.		Dimension drawing
ISHRT USB	7570098	HRT-USB modem for parameterization of IMX12 CCM02 modules.	
IMX12-SC-2X-4BK	7580940	Screw terminals for IM(X)12 modules; included in delivery: 4 pcs. of 2-pin black terminals	
IMX12-SC-2X-4BU	7580941	Screw terminals for IM(X) 12 modules; included in delivery: 4 pcs. of 2-pin blue terminals	
IMX12-CC-2X-4BK	7580942	Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. black terminals, 2-pin	
IMX12-CC-2X-4BU	7580943	Spring terminals for IM(X)12 modules; included in delivery: 4 pcs. blue terminals, 2-pin	