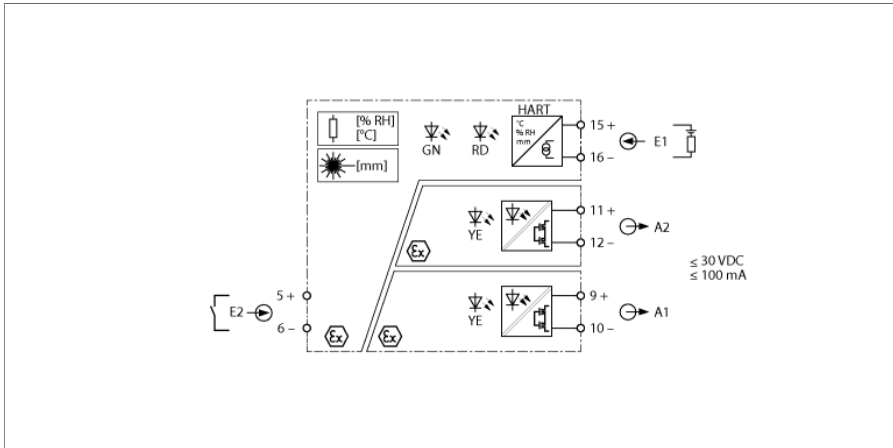


Cabinet Guard

Internal Sensors

IMX12-CCM05-MTI-1I2T-HC/L



The cabinet guards in the IMX12-CCM05... product series use integrated sensors to monitor temperature, humidity and the door status inside a control cabinet. This is done by automatically comparing the measured values with specified limit values. The device automatically reports when limit values are exceeded. Two potential-free, galvanically isolated switching outputs are available for this purpose. The devices are parameterized using a HART interface. Reed sensors, for example, can be connected to the device via a potential-free switching contact.

The device is supplied loop powered from the 4...20 mA current interface. The device can be supplied via the Turck isolating transducer IMX12-AI01-....

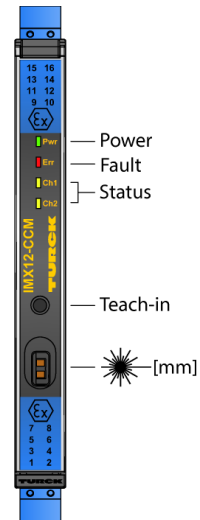
Teach-in can be performed manually on the device. The device can be more extensively parameterized using the DTM (e.g. PACTware) via the HART interface.

The device is equipped with eight screw terminals and can be mounted on a DIN rail acc. to EN 60715.

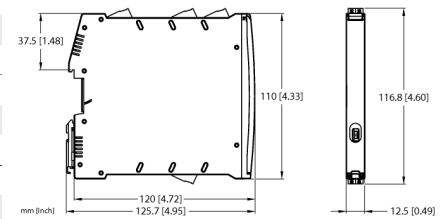
Furthermore, the device has four front-mounted LEDs to display the operating status (green), the fault signal (red) and the states of the switching outputs (2 × yellow).

The device is equipped with removable screw terminals.

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



Dimensions



Type	IMX12-CCM05-MTI-112T-HC/L
ID	100030579
Operating voltage	10...28 VDC
Power consumption	≤ 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: ≤ 30 VDC Switching current per output: ≤ 0.1 A
Moisture Sensor	
Accuracy max.	± 2 % relative humidity in the range 10...90 %
Temperature Sensor	
Max. accuracy	±0.2 °C
Distance Sensor	
Measuring range	40...1300 mm
Relative accuracy	±1.5 mm
Absolute accuracy	< ± 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

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 117 mm	
Weight	105.36 g	
Mounting instructions	DIN rail (NS35)	
Housing material	Polycarbonate/ABS	
Electrical connection	Removable screw terminals, 2-pin	
Terminal cross-section	0.2...2.5 mm² (AWG: 24...14)	
Tightening torque	0.5 Nm	
Tightening torque	4.43 LBS-Inch	
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	