

IMX12-CCM – Types and Features

ID number	Type code	Description
7570092	IMX12-CCM02-MTI-1I-2T-HC/L	with screw terminals
7570093	IMX12-CCM02-MTI-1I-2T-HC/L/CC	with cage clamp terminals

Technical Data		
Nominal voltage Operating voltage Power consumption	24 VDC loop-powered 1028 VDC ≤ 0.32 W	
Installed sensors CCM	Triangulation sensor 420 cm Humidity sensor 080 % rel. hum. Brightness sensor Temperature sensor -25+60 °C	
Output current Semiconductor output circuit(s) Output circuits (digital) Switching voltage Switching current per output Voltage drop	20 mA firmly set 2 x transistor (potential-free) NO/NC ≤ 30 VDC ≤ 100 mA T4 < 45 °C, otherwise 85 mA ≤ 3.5 V	
Moisture sensor Max. accuracy Repeat accuracy	± 3 % RF in the range 1090 % 0.2 % RF	
Temperature sensor Accuracy max. Repeat accuracy	± 1.5 °C in the range -25+60 °C 0.16 °C	
Distance Sensor Beam angle Measuring range Accuracy Temperature coefficient max. Linearity error max.	Information has been empirically determined, target white with matte finish 6° 40200 mm $\pm 3 \text{ mm}$ $\pm 6 \text{ mm}$ in the range $\leq 200 \text{ mm}$ -25+60 °C $\pm 8 \text{ mm}$ in the range of 200 mm at 23 °C	
Important note Application area Ignition protection category	For Ex-applications the values specified in the corresponding Ex certificates (ATEX, IECEx, UL, etc.) apply. II 2G II 2G Ex ib op is IIC T4 Gb	
Output circuit Internal resistance R _i Max. input voltage U _i Max. input current I _i Max. input power P _i	35 Ω ≤ 30 V ≤ 85 mA ≤ 253 mW	
Supply circuit Internal inductance/capacitance L _i /C _i Max. input voltage U _i Max. input current I _i Max. input power P _i Internal inductance/capacitance L _i /C _i	Li = negligibly small, Ci = negligibly small ≤ 28 V ≤ 93 mA ≤ 700 mW Li = negligibly small, Ci = 28.2 nF	
Indication Operational readiness Switching state Error message	green yellow red	

28 subsidiaries and over 60 representations worldwide!

www.turck.com





IMX12-CCM

Cabinet Guard







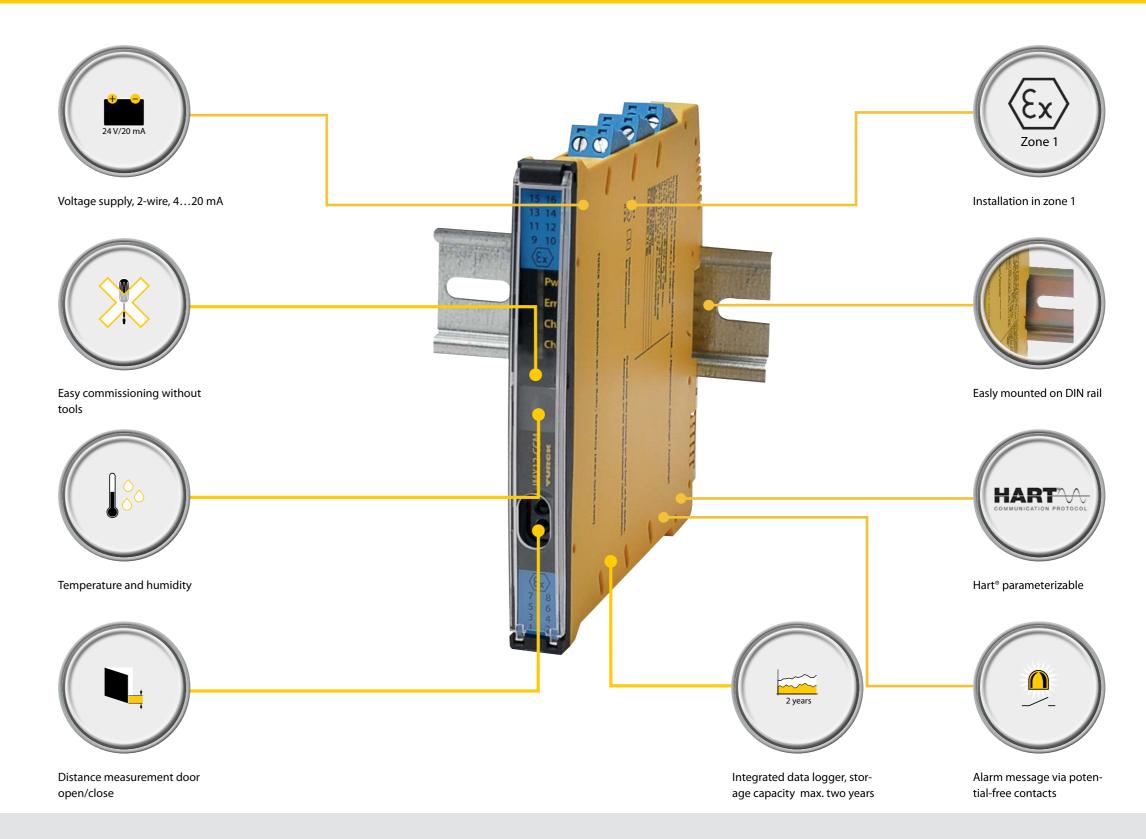
IMX12-CCM

Efficient Cabinet Monitoring in the Ex area

The IMX12-CCM (Cabinet Condition Monitoring) can be installed in virtually any cabinet or any protective enclosure to continuously check the current protection degree there even retrospectively. The DIN rail device notifies with a switching signal improperly closed doors, as well as exceedances of temperature and interior humidity, to the control system.

The 12.5 mm wide IMX12 CCM has an intrinsically safe 2-wire transducer interface and can be used in hazardous areas. The simple teaching process is done directly on the device without additional aids. For more diagnostic possibilities, such as reading out absolute values, the standardized HART interface is available.

In addition to the interface technology, the Turck cabinet guard also comprises several sensors, which detect the current state of the environment: A sensor for temperature, absolute humidity and triangulation. The latter detects the distance to the lid or the door and thus controls the proper closure. To detect moisture problems, the IMX12 CCM records these long-term trends and compares them with the learned good condition. Once defined limits are exceeded, a signal is provided via a potential-free contact to the control level.





Reliable

Turck builds on many years of experience in the field of interface technology. The new device series combines this experience with state-of-the-art technology. With this, we offer you an excellent basis for securing your investments, also in the long term and under changed market conditions.



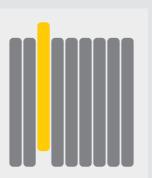
Compact

The cabinet guard IMX12 CCM requires very little space. With a width of just 12.5 mm, the IMX-CCM is an optimal solution even for small cabinets. The three built-in sensors provide excellent monitoring qualities.



Alert

In addition to monitoring the IP protection degree, the cabinet guard also warns against unwanted manipulations or unauthorised opening in the Ex area for example. Such operations are also traceable in hindsight via the built-in data blogger.



Retrofittable

The cabinet guard IMX12 CCM can be easily retrofitted in existing installations. All it needs is a little space on a DIN rail and a maximum of 6 wires to take advantage of the full range of functions. In-situ commissioning, without computers and other tools, is possible at any time.