IM12-CCM – Types and Features

ID number	Type code	Description
7570100	IM12-CCM03-MTIS-3T-IOLC	With screw terminals
7570101	IM12-CCM03-MTIS-3T-IOLC/24V/CC	With cage clamp terminals

Technical Data	
Nominal voltage	24 VDC
Operating voltage range	10…30 VDC
Power consumption	≤ 0.5 W
Installed sensors CCM	Triangulation sensor 4…500 cm Humidity sensor 10…90 % rel. hum. Brightness sensor Temperature sensor -25…+70 °C
Semiconductor output circuit(s)	
Output circuits (digital)	2 x transistor (potential-free) NO/NC
Switching voltage	≤ 30 VDC
Switching current per output	≤ 100 mA
Voltage drop	≤ 3.5 V
Humidity sensor	
Max. accuracy	+4.5 % RF in the range 10…90 %
Repeatability	0.2 % RF
Temperature sensor	
Max. accuracy	±2 °C
Repeatability	0.16 °C
Distance sensor	
Beam angle	6°
Measuring range	40…500 mm
Accuracy	±5 mm in the range ≤ 500 mm
Max. temperature coefficient	±15 mm in the range ≤ 500 mm für 0°C ≤ T ≤ 50°C, ±30 mm in the range ≤ 500 mm für -25°C ≤ T ≤ 70°C
Max. linearity error	≤ 2 % of the final value
Indication	
Operational readiness	Green
Switching state	Yellow
Error indication	Red

28 subsidiaries and over
60 representations worldwide!

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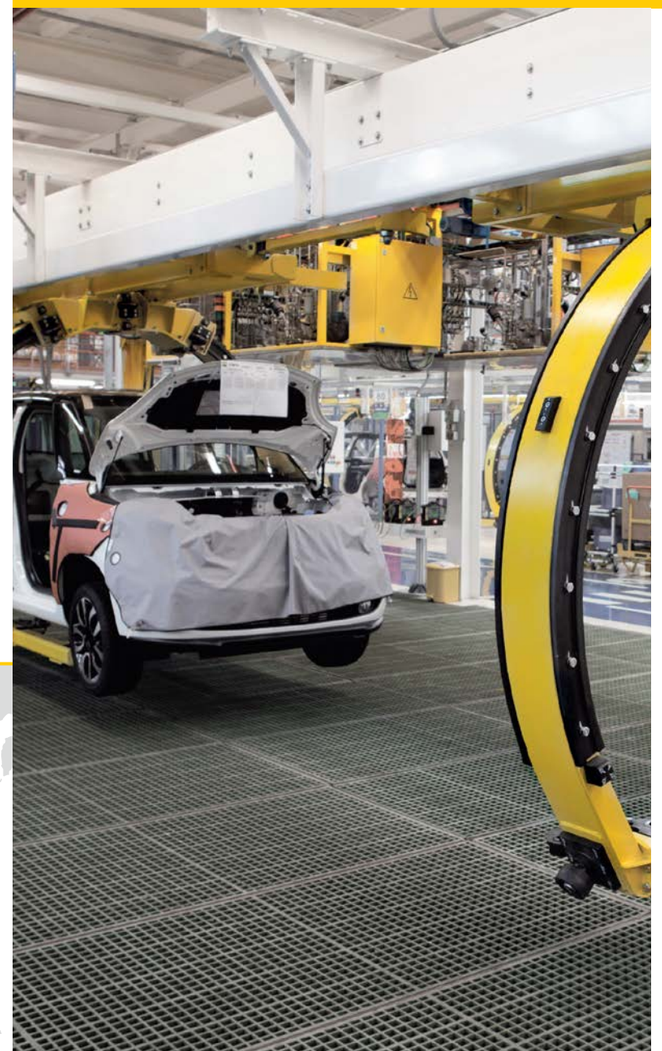
IM12-CCM
Cabinet Guard



IM12-CCM

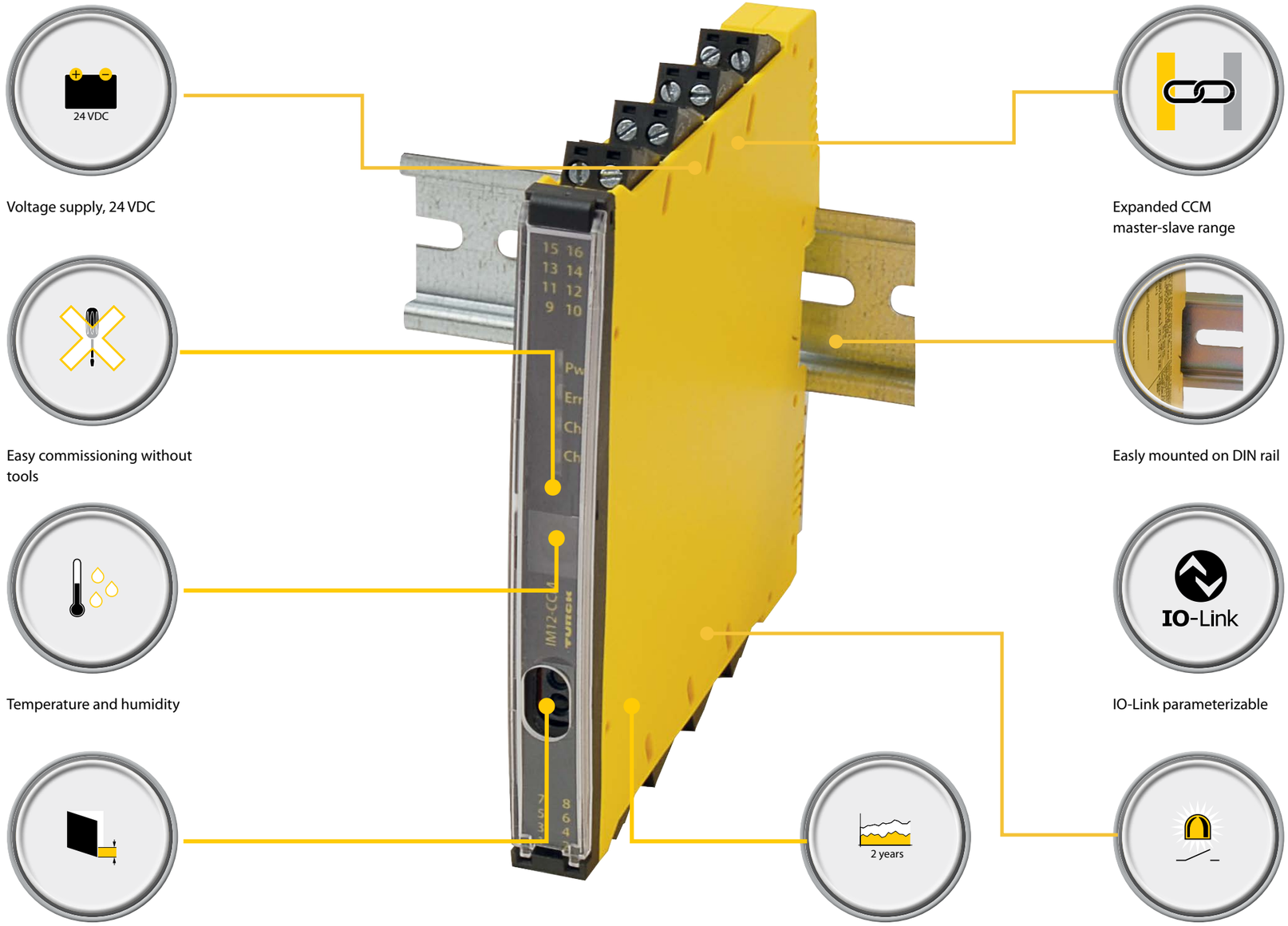
Efficient Control Cabinet Guarding in the Non-Ex Area

The IM12-CCM is the second cabinet guard in the Turck portfolio. It supplements the IMX12-CCM module which is intended for use in hazardous areas. This series has been specially developed to meet the requirements of machine and systems engineering.

The device detects incorrectly closed doors as well as the exceeding of moisture and temperature limits. It also detects unauthorized access to switch cabinets, thus providing protection against manipulation in compliance with IT security regulations. The slim 12.5 mm DIN-rail device can also be installed easily in existing switch cabinets.

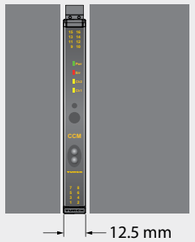
The IM12-CCM features an internal data logger with time stamp and stores data for up to two years. This enables users to also detect creeping changes over long periods and rectify the cause. An interface enables two cabinet guards to be operated in master-slave mode in order to monitor correct door closing and the other limit values simultaneously at two points in the control cabinet. The master processes the data of the slave and sends a signal to the controller.

The standard IM12-CCM comes with two switch contacts and an IO-Link interface. Quick teach mode enables the user to set the limit values easily in the field. Alternatively, parameters can be set via IO-Link or an FDT framework such as PACTware.

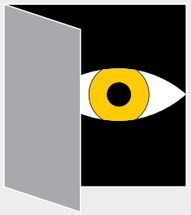


50 years Interface technology

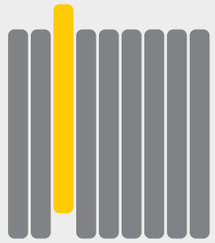
Reliable
Turck builds on many years of experience in the field of interface technology. The new device series combines this experience with state-of-the-art technology. With this, we offer you an excellent basis for securing your investments, also in the long term and under changed market conditions.



Compact
The cabinet guard IM12-CCM requires very little space. With a width of just 12.5 mm, the IM12-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. Such operations are also traceable in hindsight via the built-in data blogger.



Retrofittable
The cabinet guard IM12-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.