

SPS CONNECT 2020

Designed for harsh conditions

At the digital fair, ifm Electronic presented the CAN-controllable Ecomatpanel input module and the Ecolink CAN cables for mobile machines.



For communication via CAN, the Ecomatpanel uses the J1939 higher-layer protocol (Source: ifm)

The Ecomatpanel has been designed for use in the driver's cabins of mobile machines. The rotary button and the function keys are large enough to ensure handling even when wearing gloves. The rotary button is equipped with a four-way button (up, down, left, right) to navigate through setting menus. Another switching function can be triggered by pushing the rotary button. The illuminated four-segment ring around the rotary button, as well as the illuminated keys provide an overview of the set functions. All LED lighting elements can be set separately and assigned in individual colors.

Communication with the device is done via the integrated CAN interface using the J1939 higher-layer protocol. The default bit-rate is 250 kbit/s. Via CAN, the individual LED segments are controlled and the status of the keys and the operating head is requested. The device was designed for direct communication with the company's dialog modules for mobile applications

(Ecomatdisplays). Once the dialog module has been connected via CAN, the keys and LEDs of the panel can be evaluated directly in the application program and can be used for the operating functions of the display. No programming of the communication interface is required. The Ecomatpanel can be used in 12-V_{DC} and 24-V_{DC} on-board networks. The IP65 rating, the closed surface, operating temperature range of -40 °C to +85 °C, as well as resistance against shock and vibration provide protection under adverse environmental conditions.

Launched at the SPS Connect, the Ecolink M12 CAN cables provide a cable cross-section of 2 x 0,75 mm² (voltage supply) and 2 x 0,5 mm² (CAN) allowing for transmission of high currents with low voltage drop and for CAN data transfer. The integrated end stop protects the O-ring against destruction caused by over-tightening the nut. No tools are needed for installation and removal by hand. The asymmetrically acting vibration protection holds the nut tight in its position, guaranteeing sealing. Protection ratings IP65, IP67, IP68, and IP69k are possible in a locking condition with the matching counterpart. Therefore, the CAN cables are suited for indoor and outdoor applications on vehicles and mobile machines.

The SPS Connect 2020, the virtual platform of the exhibition SPS - Smart Production Solutions, is the digital version of the physical event (due to coronavirus). 239 exhibitors presented products and services solutions from digital automation. 2019, 1 585 exhibitors were part of the SPS exhibition. The tradeshow took part from November 16 to December 04.



The features of the Ecolink make the cables suitable for indoor and outdoor applications (Source: ifm)

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