BUCHER automation

JXM-IO-E34

I/O module



- 14 inputs and 15 diagnostic-capable outputs – including high-current paths and PWM with current control
- High switching capacity thanks to parallel usability of outputs and high total continuous current
- CAN-ID addressing via tristate inputs allows up to nine nodes in a network without software configuration, supporting the common-parts strategy
- Short-circuit-proof sensor supplies
- Robust, encapsulated housing

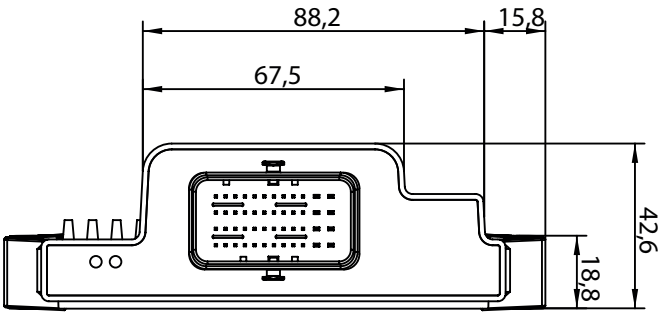
Description

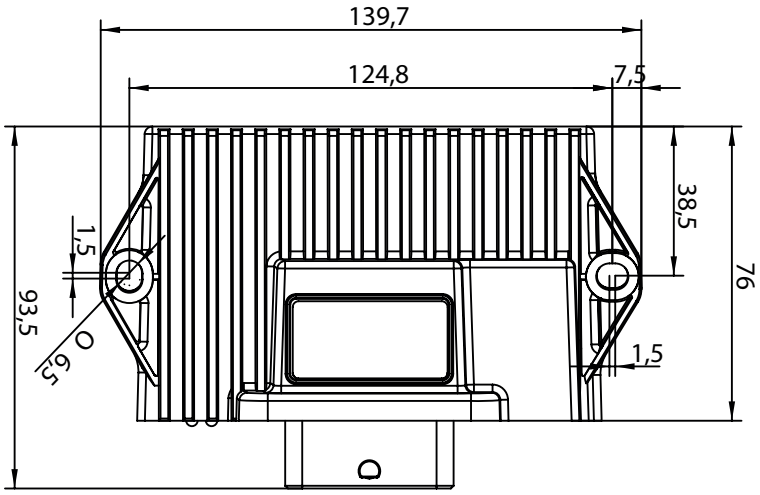
The expansion module JXM-IO-E34 is the universal decentralized component for mobile machinery. With its balanced I/O configuration, it can handle almost all decentralized tasks and significantly reduce wiring effort. The module is particularly characterized by its 12 current-controlled outputs, enabling precise control of hydraulic valves. The reference output allows the use of standard sensors and supports pre-processing applications. Communication with the JXM-IO-E34 takes place via CANopen, making it easy to integrate the module into standard CAN networks of mobile machines. Thanks to its robust, encapsulated housing, the expansion module can be used flexibly under harsh environmental conditions.

Technical specifications

Operating voltage range	DC 8 V ... 32 V, with separate ECU power supply
Operating/storage temperature	-40 °C ... +85 °C
CAN ports	1
Max. amount of inputs/outputs	29
Inputs	
Analog	8; 0 ... 10 V/0 ... 20 mA, can be configured individually, resolution: 12 bits, input impedance: 35 kΩ, load resistor: 120 Ω
Digital/frequency	4; input impedance 5.6 kΩ; 0.1 Hz ... 10 kHz; 2 of these inputs switchable NPN/PNP via software
Digital/CAN coding	2; Coding of the CAN ID, tri-state
Outputs	
PWM, precision current measurement	12; 3 A, min. 10 Hz, max. 1.5 kHz; dithering; current-controlled; diagnostic-capable; short-circuit-proof; alternatively usable as digital input active-low, input impedance 10 kΩ; digital output 3 A
PWM, half-bridge	2; 12 A, min. 10 Hz, max. 15 kHz; dithering; diagnostic-capable; short-circuit-proof; alternatively two half-bridges can be combined into a full bridge for DC motor control (open loop); parallel connection possible
Analog output	1; 0 ... 10 V
Analog output PVG	2; two PWM outputs with precision current measurement can be used as PVG outputs
Sensor power supply	2 voltage supplies for sensors (including 1x 10 V reference output)
Max. permitted total current	24 A
Degree of protection	IP66
Vibration	ISO 16750-3
Shock	ISO 16750-3
Protection against polarity reversal	Yes
Certifications	E1 (ECE R10), CE ISO 14982, ISOBUS
Output diagnostics	Short circuit, no-load

Dimensional drawing





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Further details and order information are available on request. Specifications are subject to change without notice. Errors and omissions excepted.

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