BUCHER automation

JetControlMobile 230

Controller



- 32-bit CPU > 200 MHz
- Programming in C/C++
- Withstands high total continuous current
- Configuration inputs for simplified multiple use
- Compact geometries
- Potted housing

Description

The JetControlMobile 230 is a compact controller packed with a stunning amount of freely configurable inputs and outputs. Among its peers, it sets the benchmark in terms of current carrying capacity which makes it an ideal choice to handle tasks involving high continuous currents, e.g. for lighting applications, in addition to classic hydraulic applications. Short-circuit-proof sensor supplies reduce the wiring effort. Programming is done in C/C++ via the STM32 CUBE IDE.

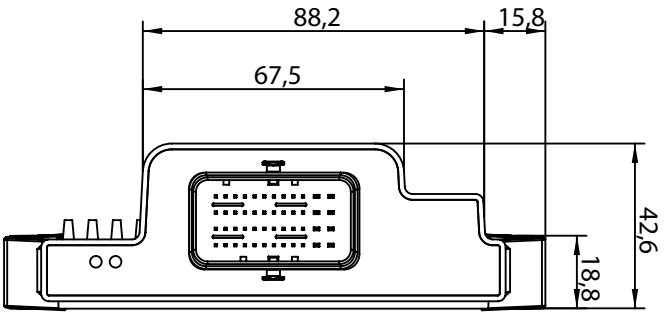
Technical specifications

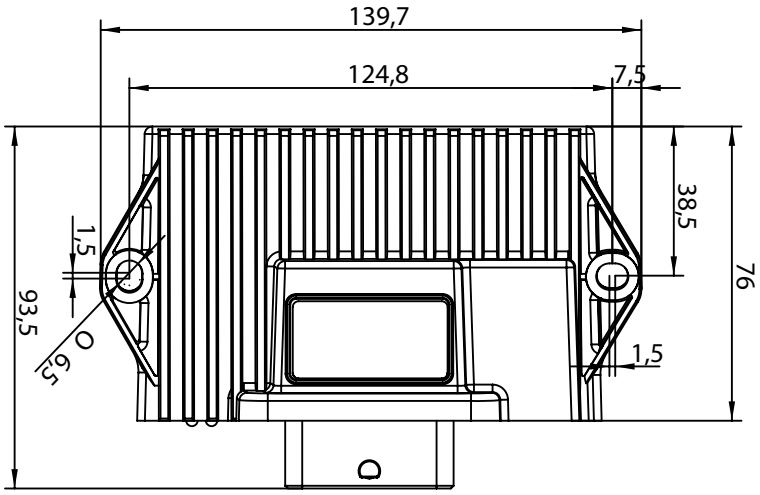
CPU	STM32 F4
Programming	C/C++
Operating voltage range	DC 8 V ... 32 V, with separate ECU power supply
Operating/storage temperature	-40 ... +85 °C
CAN ports	1, e.g. for CANopen, SAE J1939, ISOBUS, ..., requires the corresponding stack
Max. amount of inputs/outputs	26
Inputs	
Analog	8; 0 ... 5 V/0 ... 20 mA, can be configured individually, resolution: 12 bits, input impedance: 35 kΩ, load resistor: 120 Ω
Digital/frequency	4; active-high, input impedance 5.6 kΩ, 0.1 Hz ... 10 kHz
Digital / CAN coding	2; coding, e.g. for CAN ID, tri-state
Outputs with diagnostic capabilities (short-circuit, cable break)	
PWM, precision current measuring	4; 3 A, 1.5 kHz max., supports dithering; current-controlled, diagnostic capabilities; short-circuit-proof Alternative usage: Digital input, active-low, input impedance 10 kΩ Digital output 3 A PNP input
PWM	6; 7 A, 1.5 kHz max., supports dithering, diagnostic capabilities; short-circuit-proof Alternative usage: Digital input, active-low, input impedance 10 kΩ Digital output 7 A PNP input
Digital (50 % ON period)	4; 3 A high-side, diagnostic capabilities, short-circuit-proof, (with 50 % ON period) Alternative usage: Digital input, active-low, input impedance 10 kΩ PNP input
Sensor power supply	3 x VBAT for independent sensor supply
Max. permitted total current	25 A
Degree of protection	IP65
Vibration	ISO 16750-3
Shock	ISO 16750-3
Protection against polarity reversal	Yes
Output diagnostics	Short circuit, no-load
Certifications	E1 (ECE R10), CE ISO 14982

Pinout

CAN high signal	A1
CAN low signal	B1
PWMi_H3_4	C1
PWMi_H3_3	D1
PWMi_H3_2	E1
PWMi_H3_1	F1
DO_H3_4	G1
DO_H3_3	H1
DO_H3_2	J1
DO_H3_1	K1
VBAT PWR	L1
VBAT PWR	M1
CAN_TERM2	A2
CAN_TERM1	B2
DI_P_1	C2
DI_P_2	D2
DI_P_3	E2
DI_P_4	F2
GND_SEN	G2
VEXT_SEN_3	H2
VEXT_SEN_2	J2
VEXT_SEN_1	K2
VBAT PWR	L2
PWM_H7_1	M2
n.c.	A3
AI_1	B3
AI_2	C3
AI_3	D3
AI_4	E3
AI_5	F3
AI_6	G3
AI_7	H3
AI_8	J3
VBAT ECU	K3
GND_PWR	L3
PWM_H7_2	M3
PWM_H7_5	A4
PWM_H7_5	B4
PWM_H7_6	C4
PWM_H7_6	D4
PWM_H7_4	E4
PWM_H7_4	F4
PWM_H7_3	G4
PWM_H7_3	H4
CFG1_IN	J4
CFG2_OUT	K4
GND_PWR	L4
GND_PWR	M4

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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