



robust · electrical drives · 50A

IMPact-07 is a freely programmable ECU for controlling electrical actuators, DC motors or cylinders. It is suitable for installing closed positional and speed control loops. Extensive internal diagnostics and security features ensure smooth operations of electrical drives.

- electro cylinders
- electro motors
- compact power unit
- pump control, load sensing
- replacement of proportional valves

CONFIGURATION

	max available
Analog Inputs	5
Digital Inputs	5
full bridge	1

Equipment

- 1 full bridge, power output
- 5 Inputs
- 12-bit Analog Inputs

Communication

- 1 CAN-network
- CANopen based PDO-communication
- SAE J1939
- free-CAN

Protection features

- excess voltage and short circuit protected, cable break monitoring
- voltage-proof in 12 and 24 VDC vehicular electrical systems
- EMC according to mobile machine norms
- external hardware watchdog

Connection

- screw connection for supply and actuator
- inputs application-specific, typically M12

Housing

- aluminum, pressure die-cast
- IP67, fully cast except for screw connections

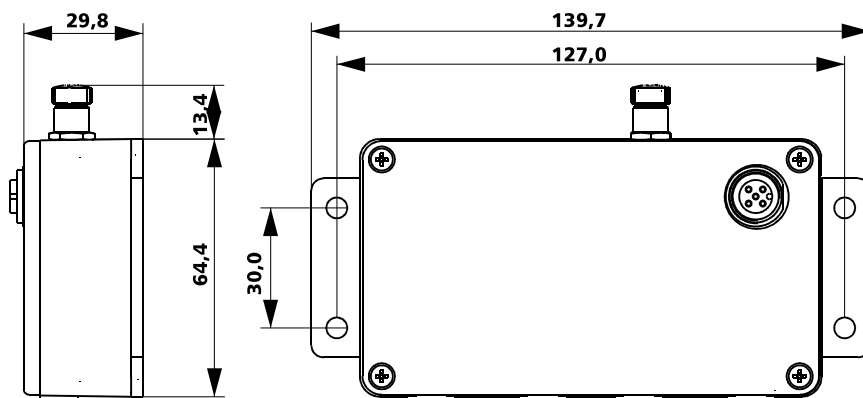
Programming

- freely programmable in C
- software tools for application programming
- software updates via M8 programming socket or CAN

Parametrizing and Servicetool

- iblos-CAN-master-pro
- iblos-CLOUD-master

DIMENSIONS



OPTION

Inputs 5 digital / analog inputs on application-specific connection

EIN-/AUSGÄNGE

Full bridge 50A, 12bit resolution, current-controlled, protected against overcurrent, overvoltage and excess temperature, proportional on/off

Analoginput protected up to 50VDC (permanent), also available as a digital input, 12 bit resolution, 0 to 10 VDC: input impedance 30 kOhm,

Reference supply 5V, max 100mA

Digitalinput protected up to 50VDC (permanent), 30kOhm input impedance positive switching, adjustable activation and deactivation levels

TECHNICAL PROPERTIES

Electrical Connection

- power supply 12/24 VDC (9 to 32 VDC)
- load dump protection, suitable for vehicular electrical systems
- voltage internally monitored
- supply output: external quick-acting fuse useable for 50A load current , per PIN
- supply electronics: external quick-acting fuse 3A

Housing

- IP67, fully cast except for screw connections
- installation screw flange

Supply/Actuator

- screw connection M5

CAN and electronics

- IM12, 5-pin socket, CiA standard

Programming interface

- C2/JTAG M8, 4polig oder
- CAN

Ambient temperature

-40° C ... +80° C

Mechanical strength

- Vibrations DIN IEC 68-2-6/mobile devices
- Continuous shock DIN IEC 68-2- 29/Eb 250-6-1000/1 (25g)
- Shock DIN IEC 68-2-27 / Ea 500-6-18/4 (50g)

EMC-Norms

- agricultural machines DIN EN ISO 14982: 2009
- construction machines DIN EN 13766-1/2: 2018-12
- interferences on the line ISO 7637: 2009
- load dump ISO 16750-2: 2012-11-01

Data interfaces

1xCAN-network 2.0 A/B

Watchdog

external hardware-Watchdog

Software

- freely programmable in C
- application-specific

MTTFd/FIT

- 145 years/787