

IMPact-ECO-connect

Cabine-Modul with 16 I/O-channels

IBL·HYDRONIC

... the solution provider



small · easy-to-use · low budget

Cabine-unit for use in vehicles, construction machines, agricultural and forestry machines, municipal devices and mobile specialized machines. Most suitable for operating-signals and actors in Cabine applications. Also useable as a extension add-on Module. Easy-to-use technology via the integrated terminal level for actuators and sensors.

Equipment

- 2 power outputs
- 14 inputs
- 12-bit analog inputs
- 12-bit real-time current-controlled PWM outputs
- 5V reference voltage, VDD and 0V on terminal level for sensors and actuators

Communication

- 1 CAN-network
- CANopen based PDO-communication
- SAEJ1939
- free-CAN

Protection functions

- 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

Connection

- 2 Molex Mini-Fit-Junior

CONFIGURATION

maximal verfügbar

Analog Inputs	10
Digital Inputs	16
current controlled PWM-Outputs	2 *)
Digital Outputs	2
Counter Inputs	on demand

*) 2 independent channels or 1 solenoids A+B each

Housing

- additive in-house production
- standard and application-specific housings
- customized coloring on demand
- fixing with 4 screws M4 or with cable-tie

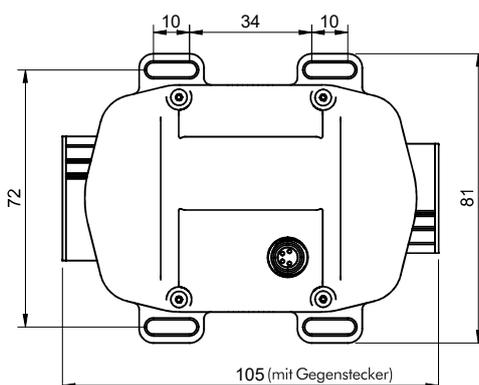
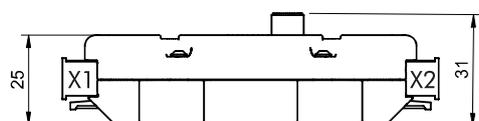
Programming

- CAN-I/O-unit with standard software
- freely programmable on demand

Parametrizing und Diagnostic tool

- iblos-CAN-master-pro
- IOPEdia Cloudconnection

DIMENSIONS



IBL-HYDRONIC GmbH und Co. KG Tel: +49 (0) 37606 37 8280
Alte Baumechanik 2 Mail: verkauf@iblos.com
D - 08485 Lengenfeld Web: www.iblos.com

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OPTIONS

Digital Outputs	2 independent power outputs
2 x PWM-Outputs	2 independent current-controlled PWM-channels for proportional valves
1 x PWM-Output	1 PWM-channel for Proportionalvalves with 2 coils A+B
Frequenzy Input	on demand

EIN-/AUSGÄNGE

Digital-Output	2A, protected against short circuit, idle running, reverse polarity, overcurrent, overvoltage and excess temperature, suitable for inductive load, diagnostics feature
PWM-Output	2A, 12bit resolution, current-controlled, protected against overcurrent, overvoltage and excess temperature, suitable for inductive load, also available for on/off valves, diagnostics feature protected up to 50VDC (permanent), also available as a digital
Analog-Input	input, 12 bit resolution, 0 to 10 VDC: input impedance 30 kOhm, 0 to 20 mA: input impedance 255 kOhm 20mA power source, measurement input for resistors (hardware configuration)
Reference supply	5V, max 100mA
Digital-Input	protected up to 50VDC (permanent), 30kOhm input impedance positive switching, adjustable activation and deactivation levels
Counter	protected up to 50VDC (permanent), input impedance 30kOhm positive switching, also available as a digital input, adjustable activation and deactivation levels, frequency max 5 kHz

TECHNICAL PROPERTIES

Electrical connection

- power supply 12/24 VDC (9 to 32 VDC)
- load dump protection, suitable for vehicular electrical systems
- supply Vdd: external quick-acting fuse max 7A
- sensor supply Vdd: external quick-acting fuse 5A available
- sensor supply 5V: internal supply via supply Vdd

Housing

- PA12
- screw flange oder cable-tie

I/O Connection

- 2 x Molex Mini-Fit-Junior 16-/14-pole

CAN and supply

- Molex Mini-Fit-Junior

Programming interface

- via 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

- 1 x CAN-Netzwerk 2.0 A/B

Watchdog

- external Hardware-Watchdog

Software

- freprogrammable in C
- ePTS-Softwaretool for applications

ANSCHLUSSBELEGUNG

Stecker X1	1	VBB	VBB nur von Batt
Molex	2	GND	0VDC
Mini-Fit Jr	3	OUT1+	PWM _I -Ausgang 1+ / Digital-Ausgang 1
16pol	4	CAN-L	CAN-low
	5	A/DIN4	Analog-/Digital-Eingang 4
	6	A/DIN2	Analog-/Digital-Eingang 2
	7	DIN12	Digital-Eingang 12
	8	GND	0VDC
	9	VBBSen	Power Ausgang Sensoren
	10	GND	0VDC
	11	OUT1-	PWM _I -Ausgang 1-
	12	CAN-H	CAN-high
	13	A/DIN3	Analog-/Digital-Eingang 3
	14	A/DIN1	Analog-/Digital-Eingang 1
	15	DIN11	Digital-Eingang 11
	16	Ref	5V

Stecker X2	1	GND	0VDC
Molex	2	DIN14	Digital-Eingang 14
Mini-Fit Jr	3	A/DIN10	Analog-/Digital-Eingang 10
14pol	4	A/DIN8	Analog-/Digital-Eingang 8
	5	A/DIN6	Analog-/Digital-Eingang 6
	6	CAN-L	CAN-low
	7	OUT2+	PWM _I -Ausgang 2+ / Digital-Ausgang 2
	8	Ref	5V
	9	DIN13	Digital-Eingang 13
	10	A/DIN9	Analog-/Digital-Eingang 9
	11	A/DIN7	Analog-/Digital-Eingang 7
	12	A/DIN5	Analog-/Digital-Eingang 5
	13	CAN-H	CAN-high
	14	OUT2-	PWM _I -Ausgang 2-

