ehb electronics gmbh
smart industrial electronics





ehb **SMART**modul 04

CANmodul

The ehb SMARTmodul 04 delivers a multitude of functions for monitoring and controlling applications via CAN bus (SAE J1939).

APPLICATIONS

Construction machinery

Communal vehicles

Agricultural machines

Plant engineering

Maritime applications

Analogue, digital and CAN bus signals are reliably interconnected and evaluated
Simple networking of a multitude of sensors, actuators and units.

Inputs and outputs can be controlled via CAN bus
Control tasks are easily achieved via the connected HMI without programming efforts at the controller.

Individually programmable according to customer specification
The standard components can be enhanced by adaptations to the requirement of specific applications.

UV-resistant, rugged PA6 housing for screwed installation.
Connection via standard plug connectors.
Fast installation and retrofit. Dependable functioning in industrial environments.

No direct access to the sensors installed at the motor
The engine warranty is not affected.

Diverse basic variants
Individual requirements can be inexpensively configured

Speed module: Speed adjustment with simple switches and push-buttons. The programmable working speed can be approached by ramp. Output for analogue speed indication.

Display module: Supports 12V and 24V standard instruments. Engine oil pressure, engine oil and coolant temperature, fuel gauge, speed indicator and much more. An engine change does not require the display panel to be replaced.

I/O module: Configurable for up to four digital inputs and/or outputs.

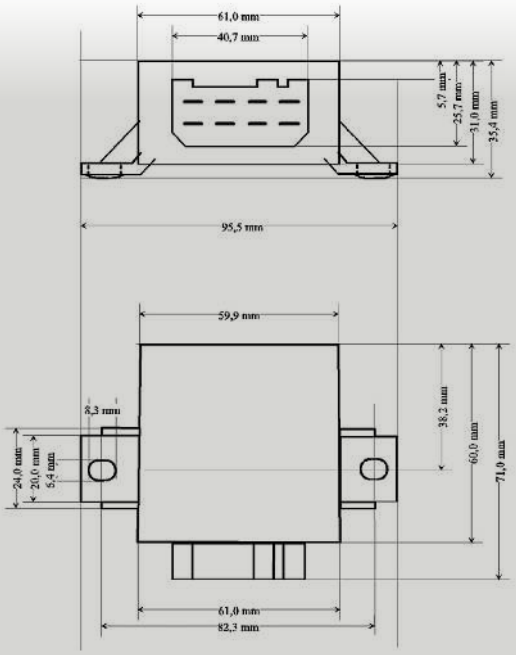
Sensor module: Transmission of current measured values from four analogue inputs to the CAN bus

ehb SMARTmodul 04-x

CANmodul

TECHNICAL DATA

(speed module)	Art. No. ehb5000x
(display module)	Art. No. ehb5001x
(I/O module)	Art. No. ehb5002x
(sensor module)	Art. No. ehb5003x



Electrical data				
Voltage range	8 – 32V (typ. 12 – 24V)			
Interference	14 – 28V (6Vss, 50Hz on UB)			
Voltage peaks	200V (2ms on UB)			
Power consumption	< 5 – 200mA (in UB 8 – 24V)			
Operating temperature	-40°C to +105°C			
Storage temperature	-55°C to +105°C			
Pin assignment				
PIN	Speed module	Display module	I/O module	Sensor module
3	UPM+	Instrument 1 Oil pressure	Input 1 or Output 1	Tank level sensor input
7	UPM-	Instrument 2 Water temperature	Input 2 or Output 2	Cooling water level sensor input
2	Working speed	Instrument 3 Oil temperature	Input 3 or Output 3	Hydraulic oil level sensor input
6	Frequency output, revolution counter	Frequency output, revolution counter Or optional: Instrument 4 Fuel gauge	Input 4 or Output 4	Hydraulic oil temperature sensor input
5	CAN High	CAN High	CAN High	CAN High
1	CAN Low	CAN Low	CAN Low	CAN Low
8	Cl. 15	Cl. 15	Cl. 15	Cl. 15
4	Cl. 31	Cl. 31	Cl. 31	Cl. 31
CAN bus interface	CAN 2.0B, 250kBit/s, SAE J1939			
Mechanical data				
Installed dimensions				
(W x H x D)	61 x 60 x 35.4mm			
	95.5 x 71 x 35.4mm (including mounting brackets and plug)			
Housing material	PA 6.6			
Weight	98 g			
Installation	2 screws with mounting brackets			
Degree of protection:	IP 53			
Connection	AMP/Tyco positive lock 8-pole			
Test standard				
Humidity	DIN EN 60068-2-3			
Vibration	DIN EN 60068-2-6			
Impact	DIN EN 60068-2-27			
CE marking	according to Directive 2014/30/EU			

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