

Control interface unit

IC-KP2-2HB21-2V1D

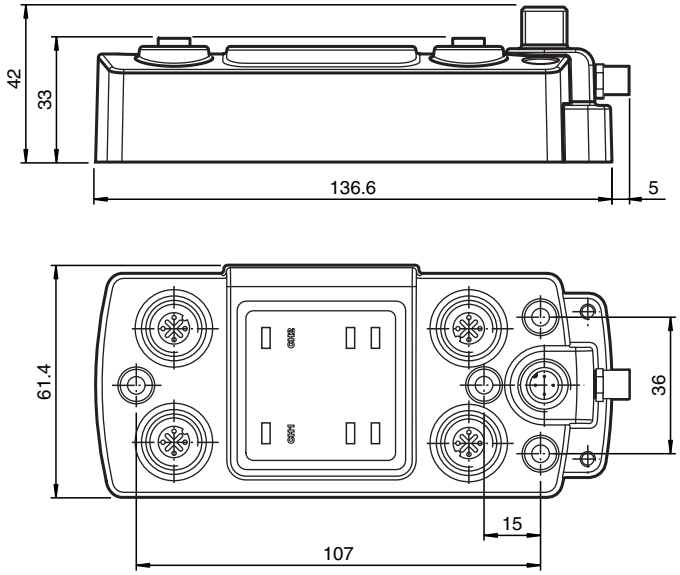
- LED status indicator of bus communication and read/write heads
- Max. 2 read/write heads can be connected
- Alternatively 1 read/write head and 1 trigger sensor can be connected

Control interface unit IDENTControl Compact with EtherCAT interface

Function

The RFID identification system IDENTControl Compact from Pepperl+Fuchs offers a vast number of benefits compared to other systems, thanks to its innovative design. The control interfaces IDENTControl and IDENTControl Compact make up the core of the system.
With its integrated interfaces to all commercially available fieldbus systems such as PROFIBUS, PROFINET, Ethernet, EtherCAT, CC-Link, serial connections (RS 232 or RS 485) and numerous connection options for read/write heads available for frequency ranges LF, HF and UHF, the IDENTControl Compact control interface can be easily and flexibly adapted to your requirements.
LEDs on the front of the housing indicate bus communication, connected read/write heads and active read/write commands. Reliability of the application is further increased by using trigger sensors.
The system is equally suited for use in control cabinets and field use in IP67. The interface to the higher-level fieldbus is integrated in the housing, and all connections are designed such that they are pluggable. This enables simple installation and quick, problem-free replacement in case of device failure. The consistent EMC design, with metal housing, grounding and shielded wires, offers a high degree of reliability.

Dimensions



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Technical Data

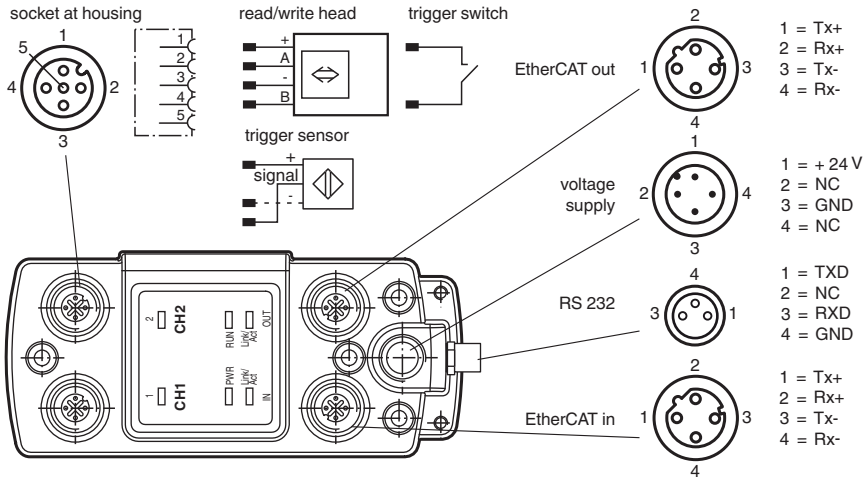
General specifications		
Number of read/write heads		max. 2 alternatively 1 read/write head and 1 trigger sensor
UL File Number		E87056
Functional safety related parameters		
$MTTF_d$		160 a
Mission Time (T_M)		10 a
Diagnostic Coverage (DC)		0 %
Indicators/operating means		
LEDs 1, 2		Status indicator for read/write heads green: command at read/write head active yellow: approx. 1 second long, if command was successfully executed
LEDs CH1, CH2		green: read head detected red: Configuration error
LED PWR/ERR		green: power on red: Hardware fault
LED RUN		Off: init Flashing (green): pre-operational Single flash (green): safe-operational On (green): operational
Electrical specifications		
Rated operating voltage	U_e	20 ... 30 V DC , PELV
Ripple		≤ 10 % at 30 V DC
Current consumption		≤ 4 A incl. read/write heads
Power consumption	P_0	3.5 W Without read/write heads
Galvanic isolation		basic insulation acc. to DIN EN 50178, rated insulation voltage of 50 V_{eff}
Interface 1		
Interface type		EtherCAT (IN)
Physical		Ethernet
Protocol		EtherCAT
Transfer rate		100 MBit/s
Interface 2		
Interface type		EtherCAT (OUT)
Physical		Ethernet
Protocol		EtherCAT
Transfer rate		100 MBit/s
Interface 3		
Interface type		Diagnostic Interface
Physical		RS 232
Protocol		ASCII
Transfer rate		38.4 kBit/s
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61000-6-2 EN 61000-6-4
RoHS		
Directive 2011/65/EU (RoHS)		EN 50581
Standard conformity		
Degree of protection		IEC 60529
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Climatic conditions		air humidity max. 96 % Salt spray resistant to EN 60068-2-52
Shock and impact resistance		Oscillation (Sine): 5 g, 10 - 1000 Hz to EN 60068-2-6 Shock (Half-sine): 30 g, 11 ms in accordance with EN 60068-2-27
Mechanical specifications		

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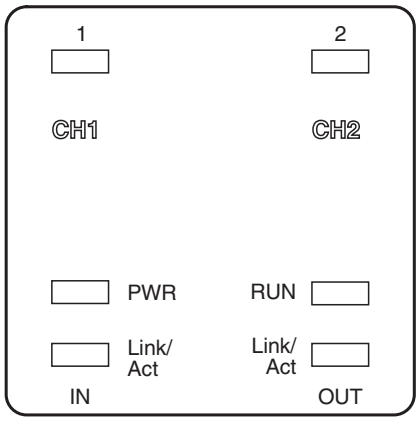
Technical Data

Degree of protection	IP67
Connection	Read/write heads: shielded, 4-pin, M12 connector Power supply: M12 connector Protective earth: M4 earthing screw Diagnostic RS 232: M8 connector EtherCAT: M12 connector, D-coded
Material	
Housing	powder coated aluminum
Installation	screw fixing
Mass	approx. 300 g

Connection



Assembly



Accessories

	**V1-G-2M-PUR-ABG-V1-W**	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	**V1-G-10M-PUR-ABG-V1-W**	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	**ICZ-MH05-SACB-8**	Mounting aid for DIN rail

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Accessories

	**V1-G-ABG-PG9**	Female connector, M12, 4-pin, screened, field attachable
	**V1S-G-ABG-PG9**	4-pin, M12, screened cable connector, field attachable
	**V3S-GM-0,15M-PUR-ABG-SUBD**	Adapter M8 on Sub-D for PC connection with null modem cable
	**V1-G-5M-PUR-ABG-V1-W**	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	**V1-G-5M-PUR-ABG**	Female cordset, M12, 4-pin, shielded, PUR cable

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