

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



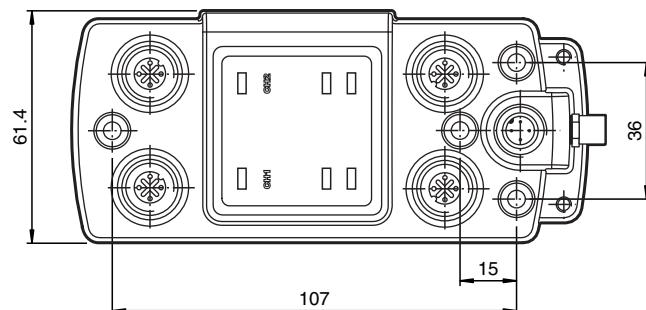
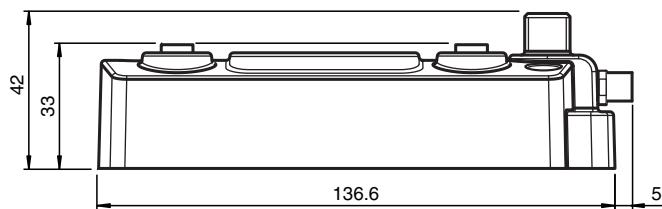
Function

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



Technical Data

General specifications

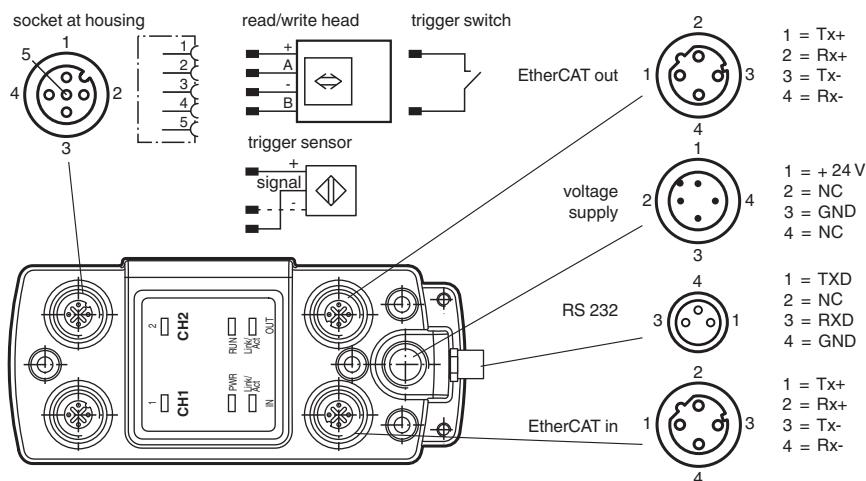
Technical Data

Number of read/write heads	max. 2 alternatively 1 read/write head and 1 trigger sensor	
UL File Number	E87056	
MTBF	80 a (Operation at +40 °C)	
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)	IEC/EN 63000	
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		
Housing length	142 mm	
Housing width	62 mm	
Housing height	42 mm	
Degree of protection	IP67	

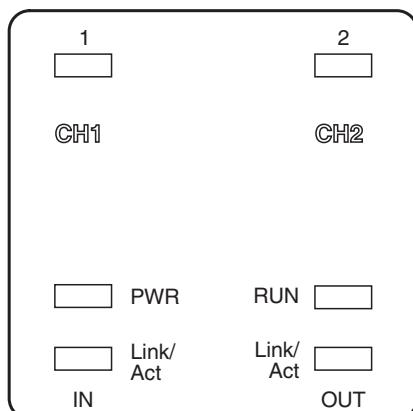
Technical Data

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 Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-10M-PUR-ABG-V1-W Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	ICZ-MH05-SACB-8 Mounting aid for DIN rail

Accessories

	V1-G-ABG-PG9	Female connector M12 straight A-coded 4-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	V1S-G-ABG-PG9	Male connector M12 straight A-coded 4-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	V3S-GM-0,15M-PUR-ABG-SUBD	Adapter cable M8 plug straight A-coded 3-pin to Sub-D-plug straight 9-pin, PUR cable grey, shielded, for PC connection with null modem cable
	V1-G-5M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-5M-PUR-ABG	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey, shielded