



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

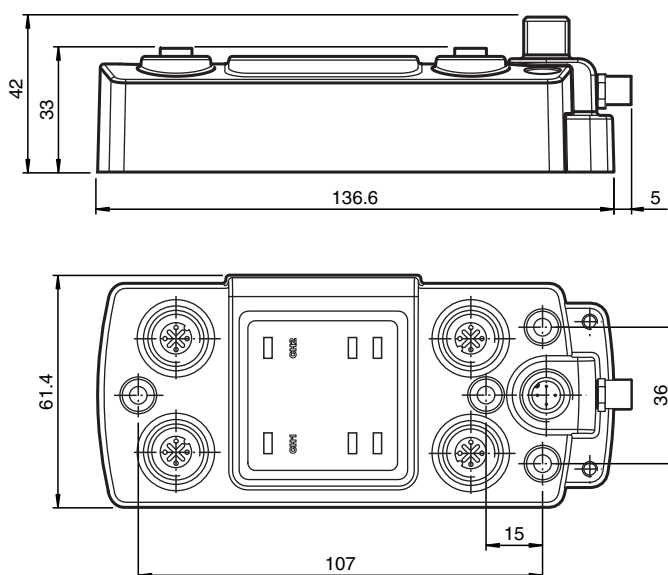
The RFID identification system IDENTControl Compact from Pepperl+Fuchs offers a vast number of benefits compared to other systems, thanks to its innovative design. The control interfaces IDENTControl and IDENTControl Compact make up the core of the system.

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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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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PEPPERL+FUCHS

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
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Ambient conditions

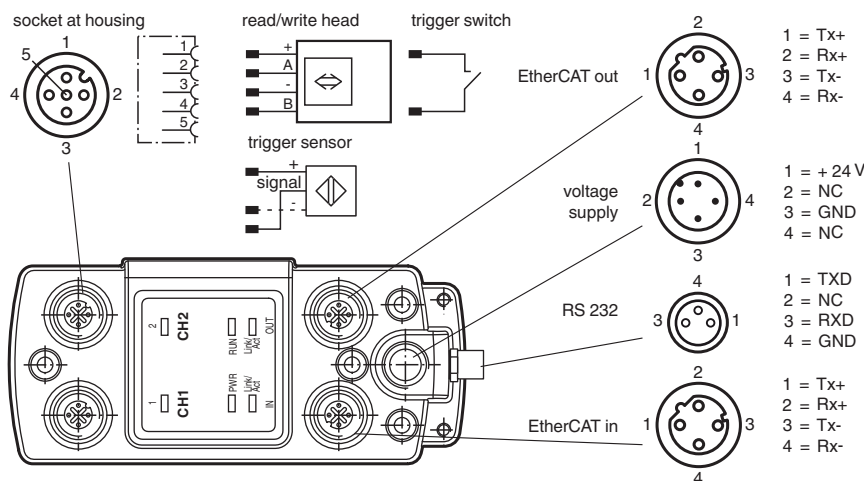
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Climatic conditions	air humidity max. 96 % Salt spray resistant to EN 60068-2-52
Shock and impact resistance	Oscillation (Sine): 5 g, 10 - 1000 Hz to EN 60068-2-6 Shock (Half-sine): 30 g, 11 ms in accordance with EN 60068-2-27

Mechanical specifications

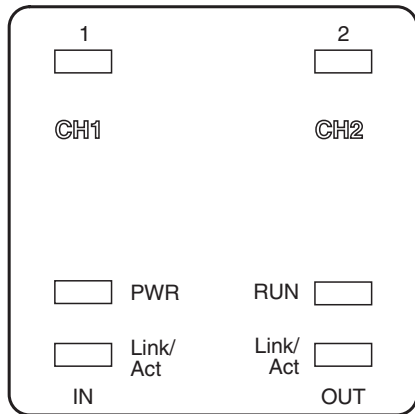
Technical Data

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

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