Control interface unit

IC-KP2-2HB6-V15B

- 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 interface for PROFIBUS DP

CE (UL)

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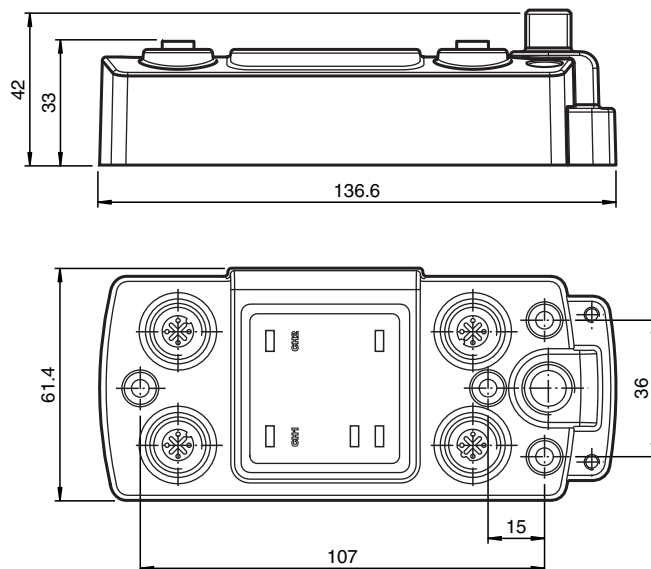
Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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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

Indicators/operating means

LED BUS	green: Slave is at state "Data Exchange" red: Bus error
LED Diag	No function
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
Rotary switch	Address setting 00 ... 7E, FF (hexadecimal) BUS Address (high nibble): 0 ... 7, F BUS Address (low nibble): 0 ... F

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	2 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	PROFIBUS
Physical	RS-485
Protocol	PROFIBUS DP acc. to EN 50170
Transfer rate	9.6; 19.2; 93.75; 187.5; 500; 1500 kBit/s 3; 6; 12 Mbit/s self-synchronizing

Interface 2

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

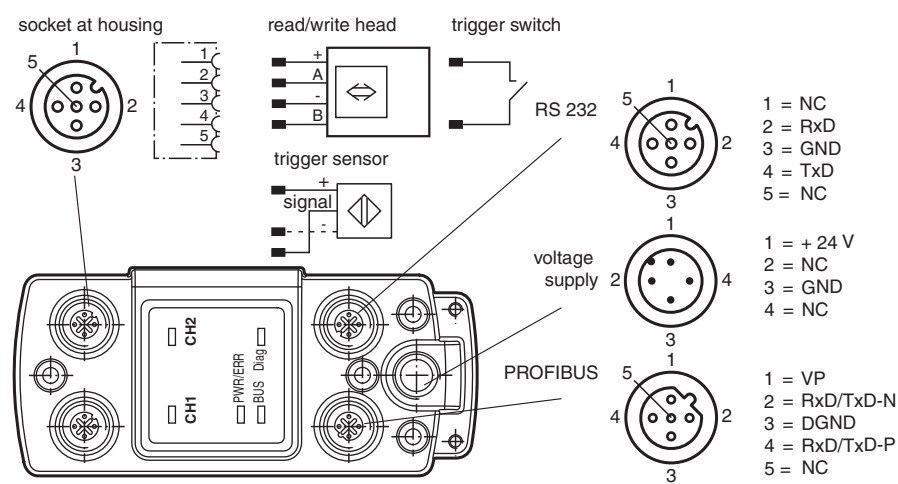|	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
Storage temperature	-40 ... 85 °C (-40 ... 185 °F)
Climatic conditions	air humidity max. 96 % Salt spray resistant to EN 60068-2-52
Shock and impact resistance	Oscillation (Sine): 5 g, 10 - 1000 Hz to EN 60068-2-6 Shock (Half-sine): 30 g, 11 ms in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

Mechanical specifications

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: M12 connector PROFIBUS: M12 connector, B-coded
Material	
Housing	powder coated aluminum

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Technical Data

Installation	screw fixing
Mass	approx. 300 g

Connection

socket at housing   read/write head   trigger switch

RS 232

1 = NC
2 = RxD
3 = GND
4 = TxD
5 = NC

trigger sensor

voltage supply

1 = + 24 V
2 = NC
3 = GND
4 = NC

PROFIBUS

1 = VP
2 = RxD/TxD-N
3 = DGND
4 = RxD/TxD-P
5 = NC

CH2
CH1
PWR/ERR
BUS Diag

Assembly

1	2
CH1	CH2

PWR/ERR

BUS   Diag

BUS Address (High Nibble)

BUS Address (Low Nibble)
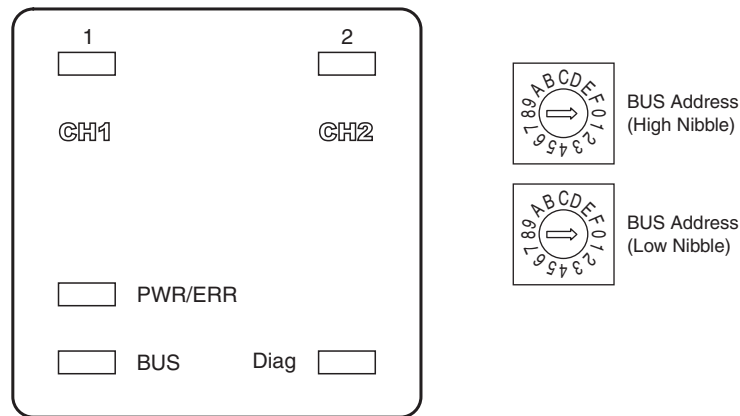
Accessories

	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
	V15B-G-5M-PUR-ABG-V15B-G	PROFIBUS bus cable, M12 to M12, PUR cable
	V15B-G-10M-PUR-ABG-V15B-G	PROFIBUS bus cable, M12 to M12, PUR cable
	ICZ-MH05-SACB-8	Mounting aid for DIN rail

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Accessories

	V1S-G-0,15M-PUR-ABG-SUBD	Adapter M12 on Sub-D for PC connection with null modem cable
	V1S-G-5M-PUR-ABG-SUBD9	Adapter, M12 x 1, to sub-D, 9-pin
	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
	ICZ-3T-0,3M-PUR ABG-V15B-G	Y connection cable for PROFIBUS
	ICZ-2T/TR-0,2M-PUR ABG-V15B-G	Terminal cable for PROFIBUS with terminal resistor

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