## Dimensions



136.6
42
33
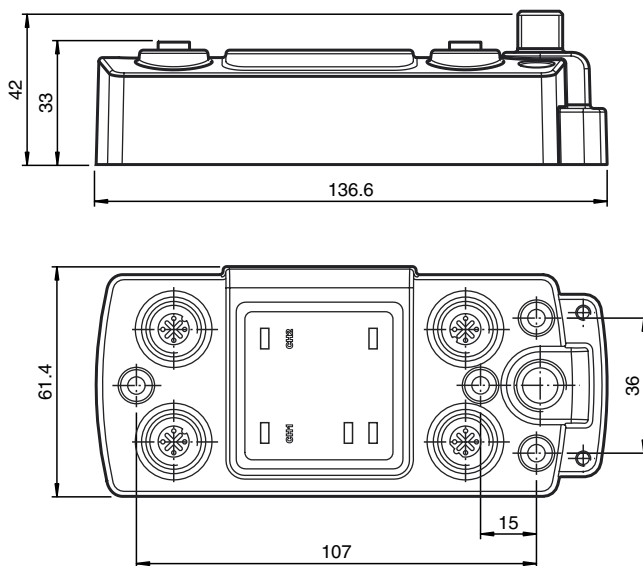61.4
36
15
107

## Model Number

**IC-KP2-2HB17-2V1D**

IDENTControl Compact control interface
With Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols
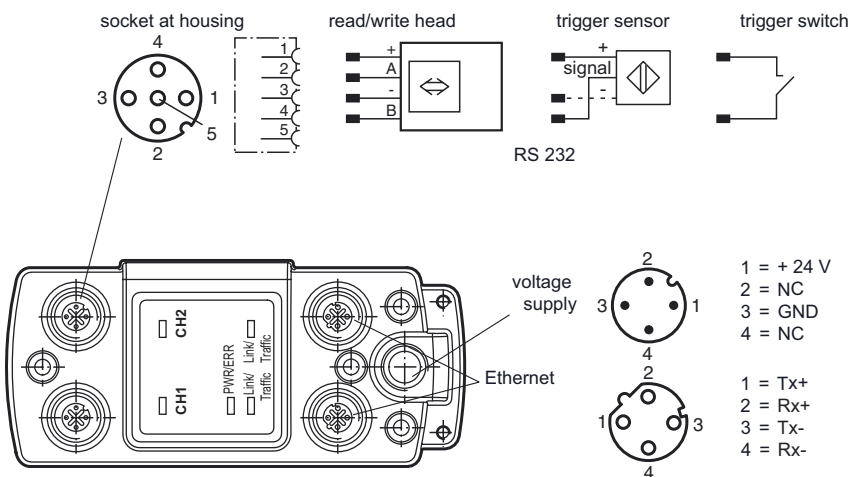
## Features

- LED status indicator of bus communication and read/write heads
- Network loop through by means of integrated 2 port switch
- Max. 2 read/write heads can be connected
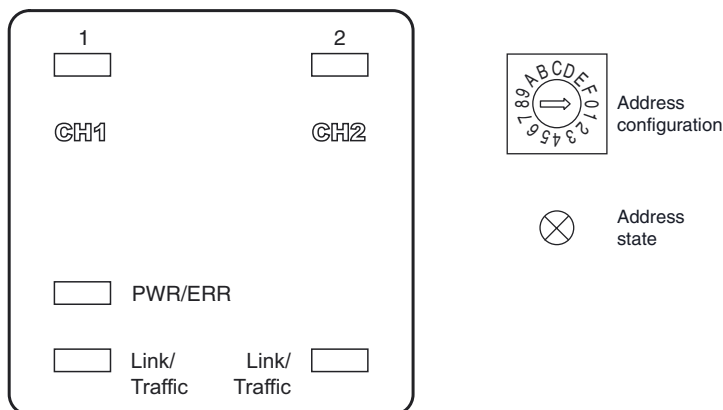- Alternatively 1 read/write head and 1 trigger sensor can be connected

## Electrical connection



socket at housing    read/write head    trigger sensor    trigger switch

RS 232

voltage supply

Ethernet

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

1 = Tx+
2 = Rx+
3 = Tx-
4 = Rx-

## Indicating / Operating means



CH1        CH2

PWR/ERR

Link/Traffic    Link/Traffic

Address configuration

Address state

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

Pepperl+Fuchs Group          USA: +1 330 486 0001          Germany: +49 621 776 4411          Singapore: +65 6779 9091
www.pepperl-fuchs.com        fa-info@us.pepperl-fuchs.com   fa-info@de.pepperl-fuchs.com      fa-info@sg.pepperl-fuchs.com

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**1**

## Technical data

### General specifications

| | |
|---|---|
| Number of read/write heads | max. 2 <br> alternatively 1 read/write head and 1 trigger sensor |
| UL File Number | E87056 |

### Indicators/operating means

| | |
|---|---|
| LED Link/Traffic | green: network connection <br> yellow: flashes in rhythm with the transmitted data |
| LEDs 1, 2 | Status indicator for read/write heads <br> green: command at read/write head active <br> yellow: approx. 1 second long, if command was successfully executed |
| LEDs CH1, CH2 | green: read head detected <br> red: Configuration error |
| LED PWR/ERR | green: power on <br> yellow: system is starting <br> red: PROFINET bus failure |
| Rotary switch | Address setting |

### Electrical specifications

| | | |
|---|---|---|
| Rated operating voltage | $U_e$ | 20 ... 30 V DC , PELV |
| Ripple | | $\leq$ 10 % at 30 V DC |
| Current consumption | | $\leq$ 4 A incl. read/write heads |
| Power consumption | $P_0$ | 3.5 W Without read/write heads |
| Electrical isolation | | basic insulation acc. to DIN EN 50178, rated insulation voltage of 50 $V_{eff}$ |

### Interface 1

| | |
|---|---|
| Physical | Ethernet |
| Protocol | SMTP <br> HTTP <br> TCP/IP (Port 10000) <br> MODBUS/TCP <br> EtherNet/IP <br> PROFINET IO |
| Transfer rate | 10 MBit/s or 100 MBit/s |

### Interface 2

| | |
|---|---|
| Physical | Ethernet |
| Protocol | SMTP <br> HTTP <br> TCP/IP (Port 10000) <br> MODBUS/TCP <br> EtherNet/IP <br> PROFINET IO |
| Transfer rate | 10 MBit/s or 100 MBit/s |

### Ambient conditions

| | |
|---|---|
| Ambient temperature | -25 ... 70 °C (-13 ... 158 °F) |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |
| Climatic conditions | air humidity max. 96 % <br> Salt spray resistant to EN 60068-2-52 |
| Shock and impact resistance | Oscillation (Sine): 5 g, 10 - 1000 Hz to EN 60068-2-6 <br> 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 <br> Power supply: M12 connector <br> Protective earth: M4 earthing screw <br> Ethernet: M12 plug connection |
| Material | |
|   Housing | Powder coated zinc |
| Installation | screw fixing |
| Mass | approx. 500 g |

### Compliance with standards and directives

| | |
|---|---|
| Directive conformity | |
|   EMC Directive 2004/108/EC | EN 61000-6-2:2006, EN 61000-6-4:2007 |
| Standard conformity | |
|   Degree of protection | IEC 60529:2001 |

## Function

The RFID identification system **IDENT**Control Compact from Pepperl+Fuchs offers a vast number of benefits compared to other systems, thanks to its innovative design. The control interfaces **IDENT**Control and **IDENT-Control** 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 **IDENT**Control 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.

## Accessories

**V1-G-5M-PUR-ABG-V1-W**
Connecting cable, M12 to M12, PUR cable 4-pin, shielded

**ICZ-MH05-SACB-8**
Mounting aid for DIN rail

**V1SD-G-5M-PUR-ABG-V45-G**
Connection cable, M12 to RJ-45, PUR cable 4-pin, CAT5e

**RFIDControl**
Software for RFID identification systems

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