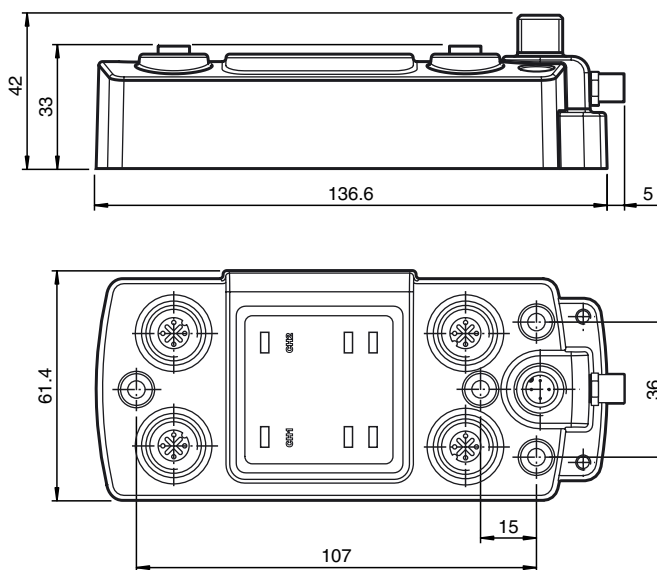## Dimensions

Model Number

IC-KP2-2HB21-2V1D

IDENTControl†Compact control interface
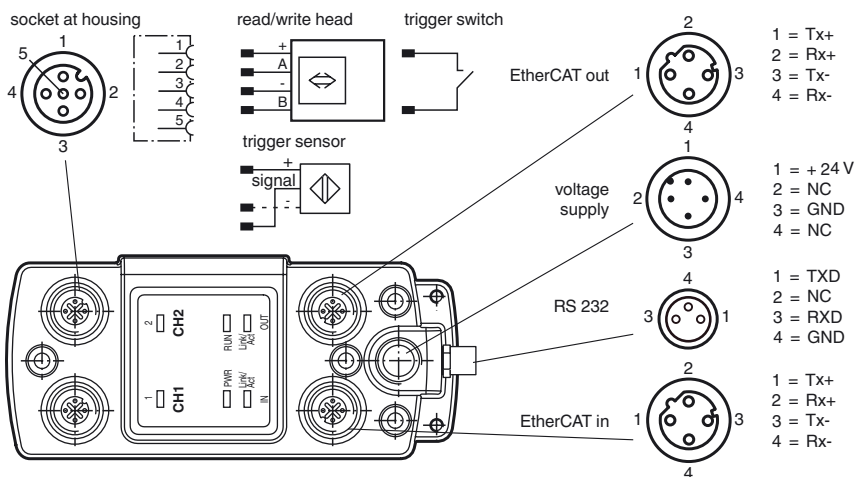with EtherCAT interface

Features

- LED status indicator of bus communication and read/write heads

- Max. 2 read/write heads can be connected

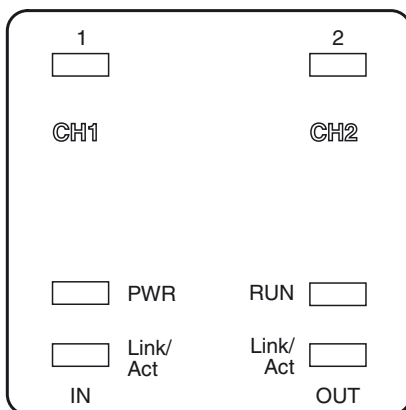- Alternatively 1 read/write head and 1 trigger sensor can be connected

Electrical connection

socket at housing

1	1
2	2
3	3
4	4
5	5

read/write head

trigger switch

trigger sensor

signal

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

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

RS 232
1 = TXD
2 = NC
3 = RXD
4 = GND

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

Indicating / Operating means

1	2
CH1	CH2
PWR	RUN
Link/Act	Link/Act
IN	OUT

PEPPERL+FUCHS
SENSING YOUR NEEDS

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

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 operational 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
Electrical 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

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

Protection degree	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 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	
Protection degree	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

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

V1-G-ABG-PG9
Cable socket, M12, 4-pin, screened, ready to make up

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