Dimensions

Model Number

IC-KP2-1HRX-2V1

Control interface unit
IDENTControl Compact
with serial interface RS-232 and RS-485

Features

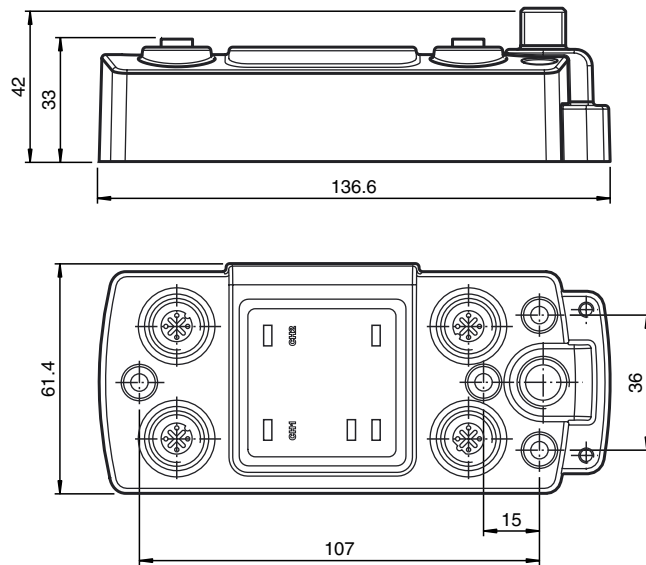- LED status indicator of bus communication and read/write head

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 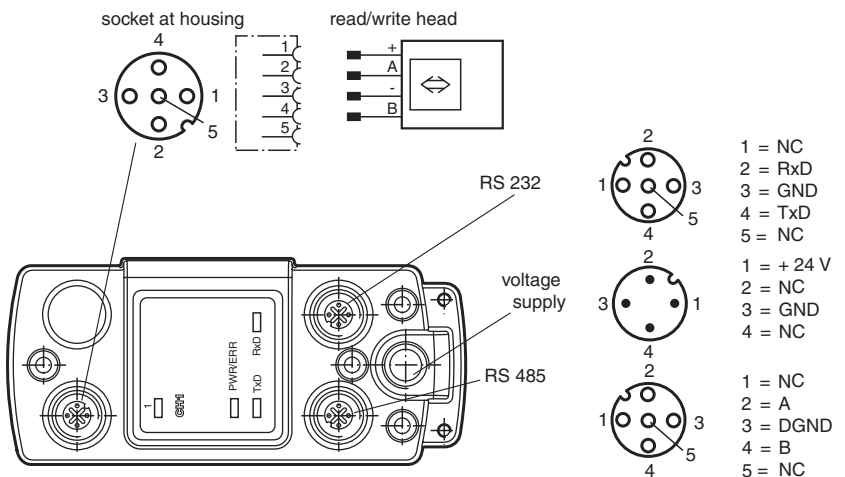flexibly adapted to your requirements. LEDs on the front of the housing indicate bus communication, connected read/write heads and active read/write commands. Reliability of the application is further increased by using trigger sensors.

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.
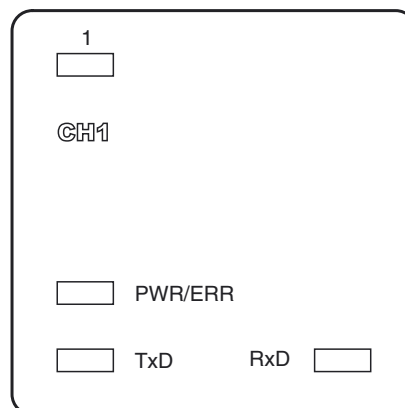
Electrical connection

socket at housing

read/write head

1	+
2	A
3	-
4	B
5	

RS 232

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

voltage supply

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

RS 485

1 = NC
2 = A
3 = DGND
4 = B
5 = NC

Indicating / Operating means

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

PEPPERL+FUCHS
SENSING YOUR NEEDS

1

Technical data

General specifications

Number of read/write heads	max. 1
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

LED 1	Status indicator for read/write head green: command at read/write head active yellow: approx. 1 second long, if command was successfully executed
LED CH1	green: read head detected red: Configuration error
LED PWR/ERR	green: power on red: Hardware fault
LED TxD	green: flashes in rhythm with the transmitted data
LED RxD	green: flashes in rhythm of receiving data

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 head
Electrical isolation		basic insulation acc. to DIN EN 50178, rated insulation voltage of 50 V_{eff}

Interface 1

Interface type	serial
Physical	RS-485
Protocol	ASCII
Transfer rate	1200; 2400; 4800; 9600; 19200; 38400 Bit/s

Interface 2

Interface type	serial
Physical	RS 232
Protocol	ASCII
Transfer rate	1200; 2400; 4800; 9600; 19200; 38400 Bit/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

Degree of protection	IP67
Connection	read/write head: M12 plug connection, 4-pin, screened, Power supply: M12 connector Protective earth: M4 earthing screw RS 232: M12 plug connection RS 485: M12 connector
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

Accessories

V1S-G-0,15M-PUR-ABG-SUBD
Adapter M12 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-10M-PUR-ABG-V1-W
Connecting cable, M12 to M12, PUR cable 4-pin, shielded

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

RFIDControl
Software for RFID identification systems

Release date: 2015-03-26 12:24   Date of issue: 2015-03-26   204979_eng.xml

PEPPERL+FUCHS
SENSING YOUR NEEDS