Model Number

IC-KP2-1HB6-V15B

Control interface unit
IDENTControl Compact
with PROFIBUS DP interface

Features

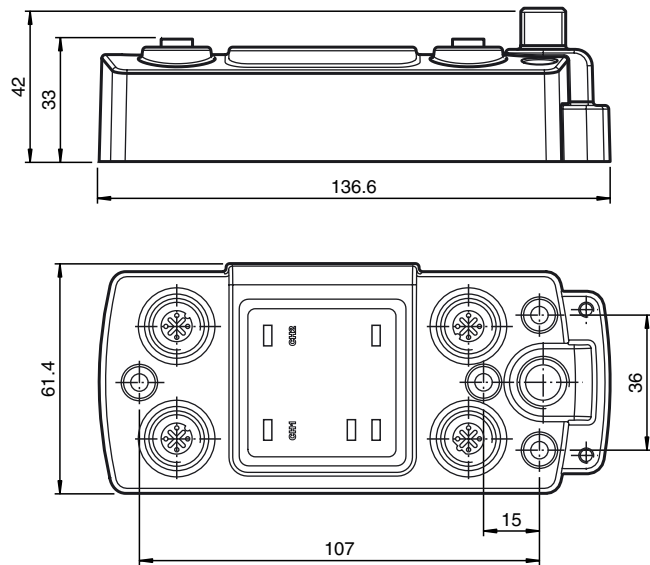- LED status indicator of bus communication and read/write head

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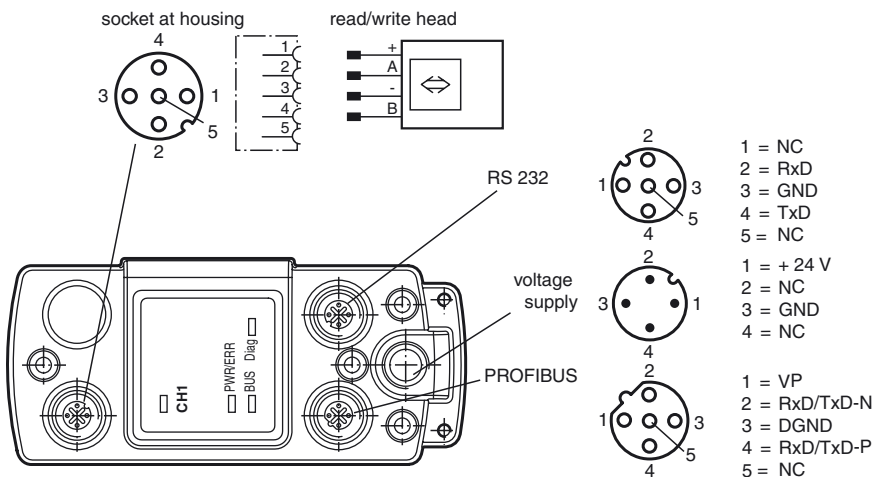
LEDs on the front of the housing indicate bus communication, connected read/write heads and active read/write commands. Reliability of the application is further increased by using trigger sensors.

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.
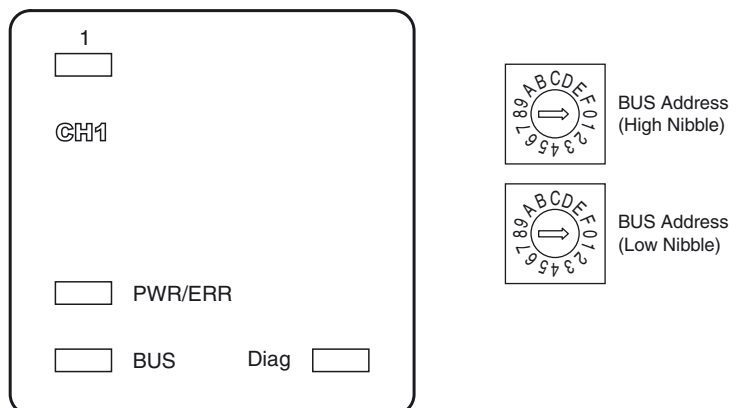
Dimensions

Electrical connection

socket at housing   read/write head

RS 232

voltage supply

PROFIBUS

CH1   PWR/ERR   BUS   Diag

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

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

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

Indicating / Operating means

1

CH1

PWR/ERR

BUS   Diag

BUS Address (High Nibble)

BUS Address (Low Nibble)

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

$MTTF_d$	140 a
Mission Time (T_M)	10 a
Diagnostic Coverage (DC)	0 %

Indicators/operating means

LED BUS	green: Slave is at state "Data Exchange" red: Bus error
LED Diag	No function
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
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 head
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

Directive conformity

Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2:2005, EN 61000-6-4:2007

Standard conformity

Degree of protection	IEC 60529:2001

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 Diagnostic RS 232: M12 connector PROFIBUS: M12 connector, B-coded
Material	
Housing	powder coated aluminum
Installation	screw fixing
Mass	approx. 300 g

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-3T-0,2M-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

V15B-G-5M-PUR-ABG-V15B-G
Bus cable PROFIBUS, M12 to M12, PUR cable

V15B-G-10M-PUR-ABG-V15B-G
Bus cable PROFIBUS, M12 to M12, PUR cable

V15B-G
Cable socket, M12, for PROFIBUS, adjustable

V15SB-G
Cable connector, M12, for PROFIBUS, adjustable

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

V1S-G-0,15M-PUR-ABG-SUBD
Adapter M12 on Sub-D for PC connection with null modem cable

Release date: 2018-09-19 14:00   Date of issue: 2018-09-19   200874_eng.xml

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