

# Control interface unit

## IC-KP2-2HB18-2V1



- 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

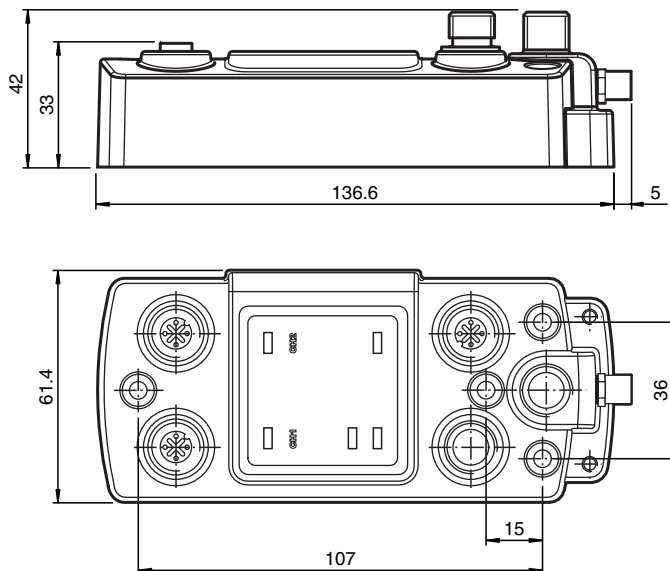
IDENTControl Compact control interface with CC-Link V2 interface



### 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



Release date: 2020-05-11 Date of issue: 2020-05-11 Filename: 223349\_eng.pdf

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

Pepperl+Fuchs Group  
www.pepperl-fuchs.com

USA: +1 330 486 0001  
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111  
fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091  
fa-info@sg.pepperl-fuchs.com

 PEPPERL+FUCHS

## Technical Data

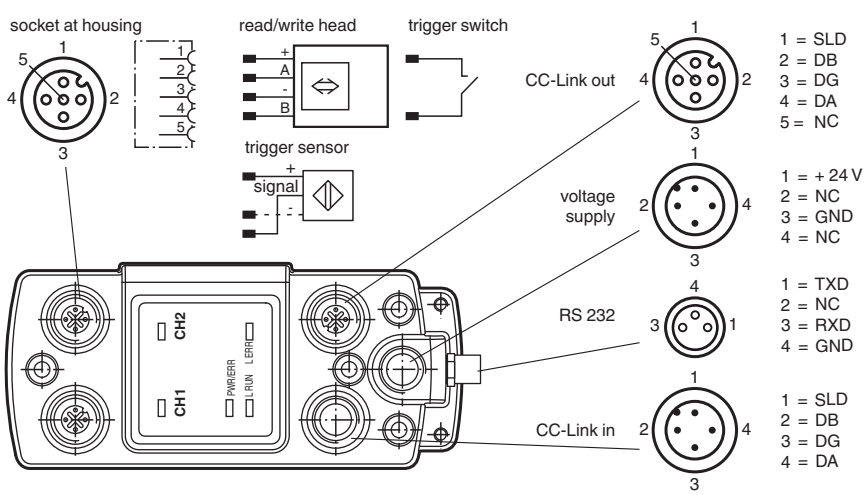
<b>General specifications</b>	
Number of read/write heads	max. 2 alternatively 1 read/write head and 1 trigger sensor
UL File Number	E87056
<b>Functional safety related parameters</b>	
MTTF <sub>d</sub>	170 a
Mission Time (T <sub>M</sub> )	10 a
Diagnostic Coverage (DC)	0 %
<b>Indicators/operating means</b>	
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 L RUN	green: on, data communication active
LED L ERR	red: on, invalid rotary switch setting or data transfer failure red: flashing, rotary switch setting changed since last switched on
Rotary switch	Address setting 01 ... 64 (decimal) Station no.: 0 ... 6 (x10) Station no.: 0 ... 9 (x1) Baud rate setting: 0 ... 4 Extended cyclic setting: 0, 1, 2, 4, 8
<b>Electrical specifications</b>	
Rated operating voltage	U <sub>e</sub> 20 ... 30 V DC , PELV
Ripple	≤ 10 % at 30 V DC
Current consumption	≤ 4 A incl. read/write heads
Power consumption	P <sub>0</sub> 3.5 W Without read/write heads
Galvanic isolation	basic insulation acc. to DIN EN 50178, rated insulation voltage of 50 V <sub>eff</sub>
<b>Interface 1</b>	
Interface type	CC-Link
Physical	RS-485
Protocol	CC-Link
Transfer rate	156; 625 kBit/s 2,5;5;10 Mbit/s
<b>Interface 2</b>	
Interface type	Diagnostic Interface
Physical	RS 232
Protocol	ASCII
Transfer rate	38.4 kBit/s
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2 EN 61000-6-4
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581
<b>Standard conformity</b>	
Degree of protection	IEC 60529
<b>Ambient conditions</b>	
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
<b>Mechanical specifications</b>	
Degree of protection	IP67

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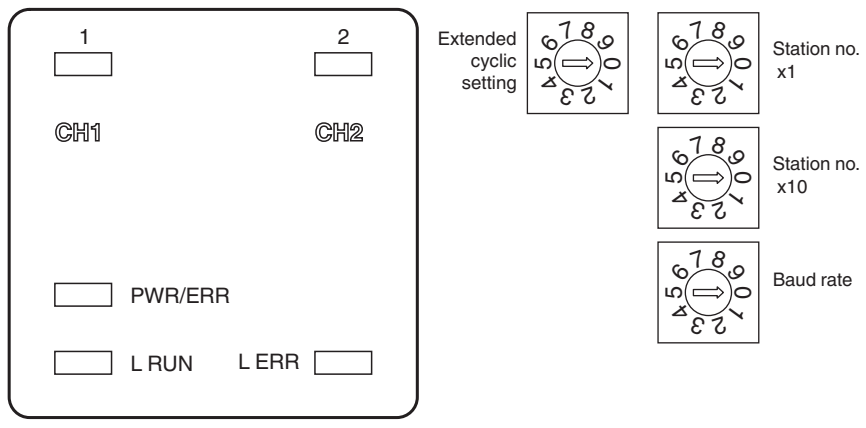
**Technical Data**

Connection	Read/write heads: shielded, 4-pin, M12 connector Power supply: M12 connector Protective earth: M4 earthing screw Diagnostic RS 232: M8 connector CC-Link: M12 connector, A-coded
Material	
Housing	powder coated aluminum
Installation	screw fixing
Mass	approx. 300 g

**Connection**



**Assembly**











**Accessories**

	<b>V1-G-2M-PUR-ABG-V1-W</b>	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	<b>V1-G-10M-PUR-ABG-V1-W</b>	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	<b>ICZ-MH05-SACB-8</b>	Mounting aid for DIN rail

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## Accessories

	<b>V1-G-ABG-PG9</b>	Female connector, M12, 4-pin, screened, field attachable
	<b>V1S-G-ABG-PG9</b>	4-pin, M12, screened cable connector, field attachable
	<b>ICZ-3T-0,3M-PVC-CCL-V1-G</b>	Y connection cable for CC-Link
	<b>V3S-GM-0,15M-PUR-ABG-SUBD</b>	Adapter M8 on Sub-D for PC connection with null modem cable
	<b>ICZ-TR-V1-130R</b>	Terminal resistor for CC-Link
	<b>ICZ-TR-V1-110R</b>	Terminal resistor for CC-Link
	<b>V1-G-5M-PUR-ABG-V1-W</b>	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	<b>V1-G-5M-PUR-ABG</b>	Female cordset, M12, 4-pin, shielded, PUR cable