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

$\mathsf{C}\,\mathsf{E}$ (UL) UKCA CC-Link V2

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
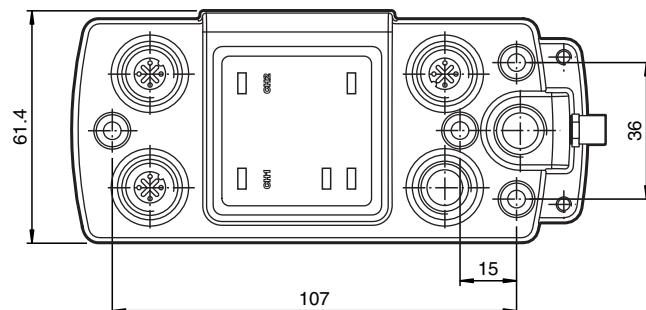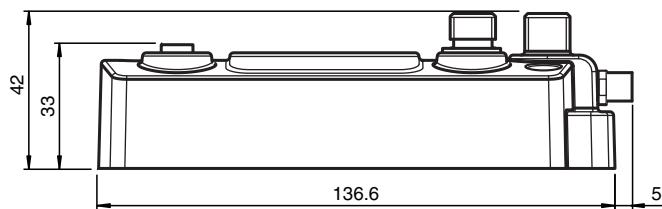
Technical Data

General specifications

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

1

Technical Data

Number of read/write heads			max. 2 alternatively 1 read/write head and 1 trigger sensor
UL File Number			E87056
MTBF			85 a (Operation at +40 °C)
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 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
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		3.5 W Without read/write heads
Galvanic isolation			basic insulation acc. to DIN EN 50178, rated insulation voltage of 50 V_{eff}
Interface 1			
Interface type			CC-Link
Physical			RS-485
Protocol			CC-Link
Transfer rate			156; 625 kBit/s 2,5;5;10 Mbit/s
Interface 2			
Interface type			Diagnostic Interface
Physical			RS 232
Protocol			ASCII
Transfer rate			38.4 kBit/s
Directive conformity			
Electromagnetic compatibility			
Directive 2014/30/EU			EN 61000-6-2 EN 61000-6-4
RoHS			
Directive 2011/65/EU (RoHS)			IEC/EN 63000
Standard conformity			
Degree of protection			IEC 60529
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			
Housing length			142 mm
Housing width			62 mm
Housing height			42 mm
Degree of protection			IP67

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".
Pepperl+Fuchs Group | USA: +1 330 486 0001 | Germany: +49 621 776 1111 | 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 | 2

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

socket at housing, read/write head, trigger switch, trigger sensor, signal

CC-Link out:
1 = SLD
2 = DB
3 = DG
4 = DA
5 = NC

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

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

CC-Link in:
1 = SLD
2 = DB
3 = DG
4 = DA

Assembly

CH1, CH2, PWR/ERR, L RUN, L ERR

Extended cyclic setting, Station no. x1, Station no. x10, Baud rate
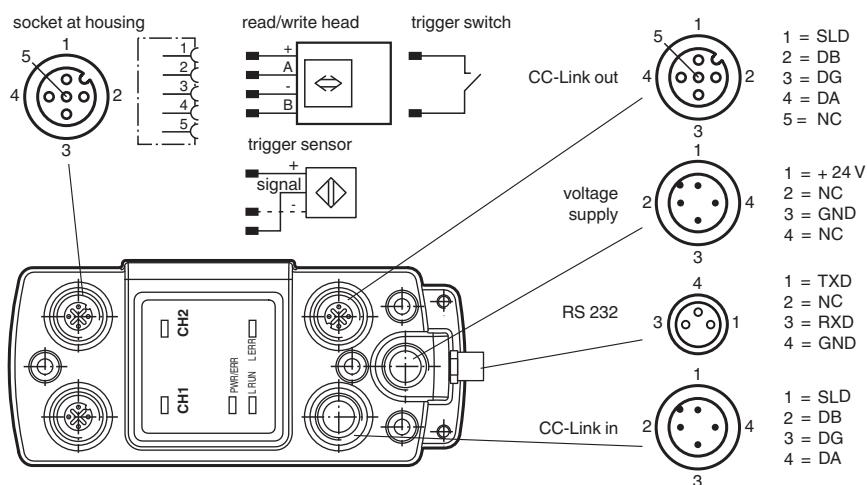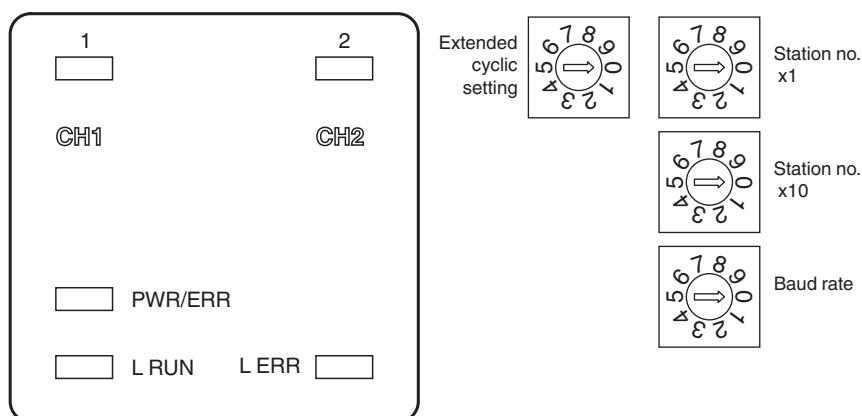
Accessories

	V1-G-2M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-10M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	ICZ-MH05-SACB-8	Mounting aid for DIN rail

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

Pepperl+Fuchs Group   USA: +1 330 486 0001   Germany: +49 621 776 1111   Singapore: +65 6779 9091   PEPPERL+FUCHS   3
www.pepperl-fuchs.com   fa-info@us.pepperl-fuchs.com   fa-info@de.pepperl-fuchs.com   fa-info@sg.pepperl-fuchs.com

Release date: 2023-08-07 Date of issue: 2023-08-07 Filename: 223349_eng.pdf

Accessories

	V1-G-ABG-PG9	Female connector M12 straight A-coded 4-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	V1S-G-ABG-PG9	Male connector M12 straight A-coded 4-pin, for cable diameter 5 - 8 mm, shielded, field-attachable
	ICZ-3T-0,3M-PVC-CCL-V1-G	Y connection cable for CC-Link
	V3S-GM-0,15M-PUR-ABG-SUBD	Adapter cable M8 plug straight A-coded 3-pin to Sub-D-plug straight 9-pin, PUR cable grey, shielded, for PC connection with null modem cable
	ICZ-TR-V1-130R	Terminal resistor for CC-Link
	ICZ-TR-V1-110R	Terminal resistor for CC-Link
	V1-G-5M-PUR-ABG-V1-W	Cordset M12 socket straight to M12 plug angled A-coded, 4-pin, PUR cable grey, shielded
	V1-G-5M-PUR-ABG	Female cordset single-ended M12 straight A-coded, 4-pin, PUR cable grey, shielded

PEPPERL+FUCHS