

Control interface unit

IC-KP2-1HRX-2V1



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

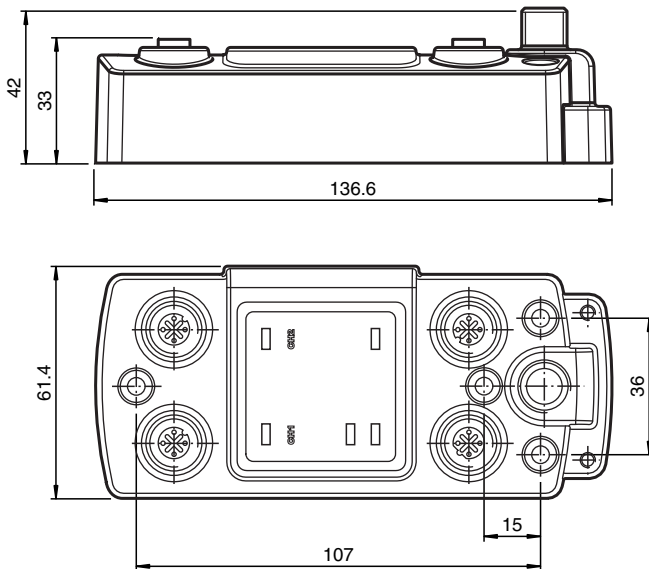
Control interface unit IDENTControl Compact with serial interface RS-232 and RS-485



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



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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

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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
Galvanic 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
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61000-6-2 EN 61000-6-4
RoHS	
Directive 2011/65/EU (RoHS)	EN 50581
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	
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 aluminum

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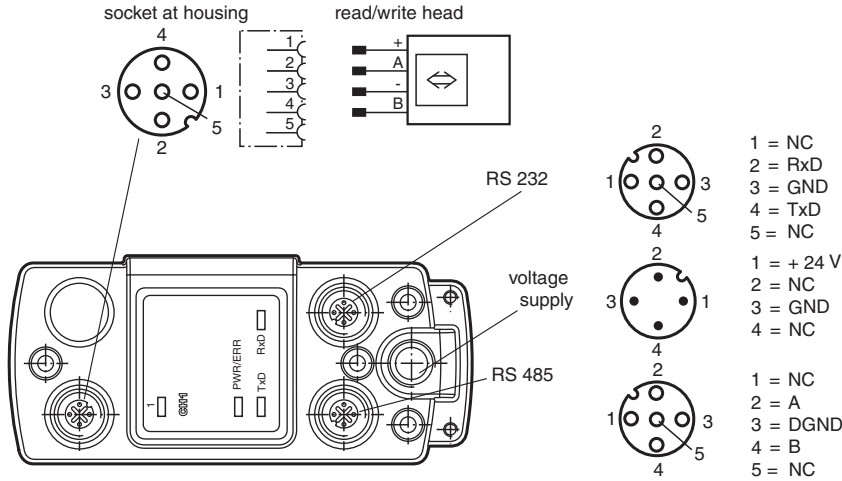
 Singapore: +65 6779 9091
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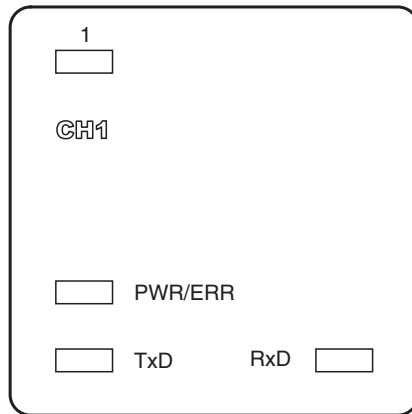
Technical Data

Installation	screw fixing
Mass	approx. 300 g

Connection



Assembly



Accessories

	V1S-G-0,15M-PUR-ABG-SUBD	Adapter M12 on Sub-D for PC connection with null modem cable
	V1-G-2M-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
	V1S-G-5M-PUR-ABG-SUBD9	Adapter, M12 x 1, to sub-D, 9-pin

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Accessories**V1-G-5M-PUR-ABG-V1-W** Connecting cable, M12 to M12, PUR cable 4-pin, shielded**V1-G-5M-PUR-ABG**

Female cordset, M12, 4-pin, shielded, PUR cable