

Control interface unit

IC-KP2-2HB6-V15B



- 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

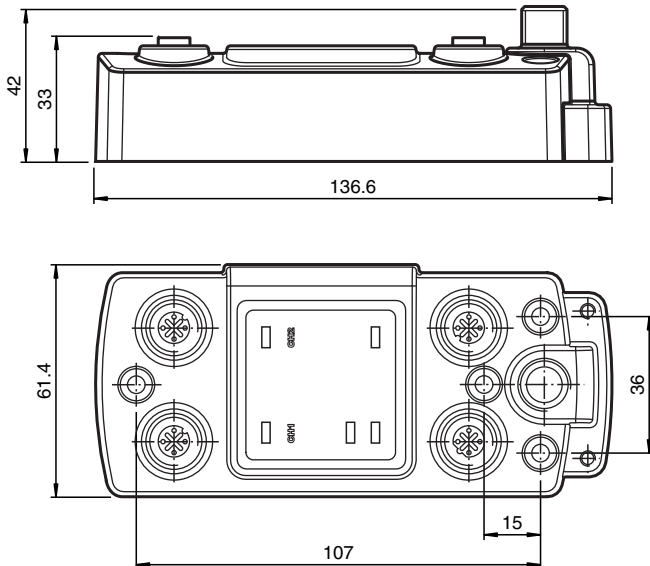
Control interface unit IDENTControl Compact with interface for PROFIBUS DP



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

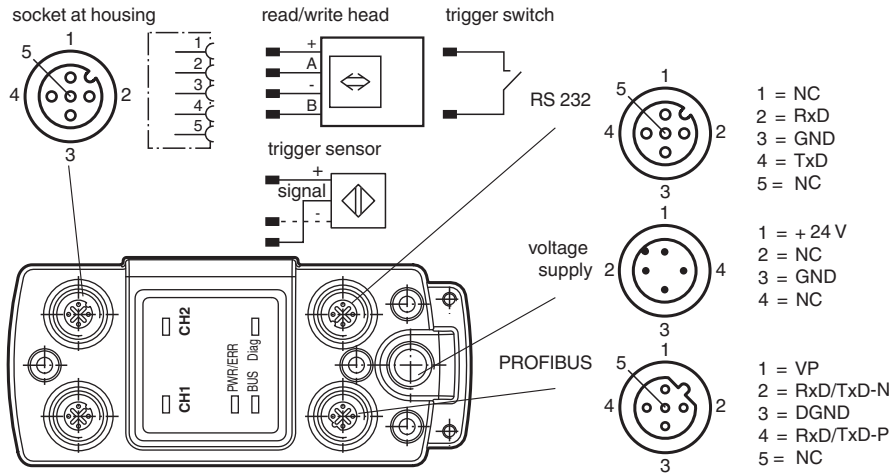
Technical Data

Number of read/write heads	max. 2 alternatively 1 read/write head and 1 trigger sensor	
UL File Number	E87056	
Indicators/operating means		
LED BUS	green: Slave is at state "Data Exchange" red: Bus error	
LED Diag	No function	
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	
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	$\leq 10\%$ at 30 V DC	
Current consumption	≤ 4 A incl. read/write heads	
Power consumption	P_0	2 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	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	
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	137 mm	
Housing width	62 mm	
Housing height	42 mm	
Degree of protection	IP67	
Connection	Read/write heads: shielded, 4-pin, M12 connector Power supply: M12 connector Protective earth: M4 earthing screw Diagnostic RS 232: M12 connector PROFIBUS: M12 connector, B-coded	

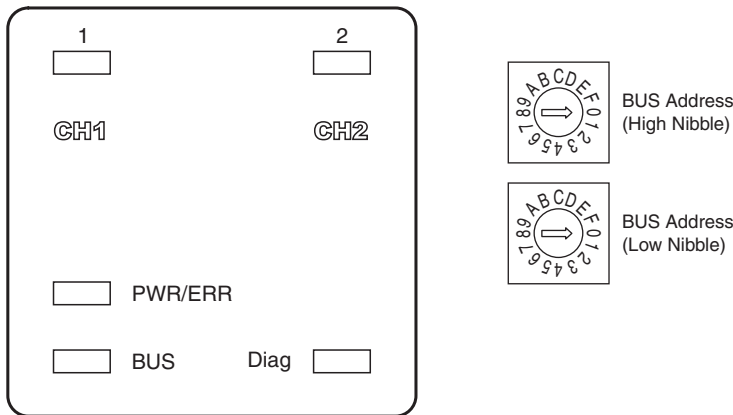
Technical Data

Material	
Housing	powder coated aluminum
Installation	screw fixing
Mass	approx. 300 g

Connection



Assembly










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
	V15B-G-5M-PUR-ABG-V15B-G	PROFIBUS bus cable M12 socket straight to M12 plug straight B-coded, 5-pin, PUR cable 2-core violet, shielded
	V15B-G-10M-PUR-ABG-V15B-G	PROFIBUS bus cable M12 socket straight to M12 plug straight B-coded, 5-pin, PUR cable 2-core violet, shielded

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Accessories

	ICZ-MH05-SACB-8	Mounting aid for DIN rail
	V1S-G-0,15M-PUR-ABG-SUBD	Adapter cable M12 plug straight A-coded 4-pin to Sub-D-plug straight 9-pin, PUR cable grey, shielded
	V1S-G-5M-PUR-ABG-SUBD9	Adapter cable M12 plug straight A-coded 4-pin to Sub-D-socket straight 9-pin, PUR cable grey, shielded
	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
	ICZ-3T-0,3M-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