



Control interface unit

IC-KP-B17-AIDA1

- Max. 4 read/write heads connectable
- Alternative 2 read/write heads and 2 trigger sensors can be connected
- LED status indicator of bus communication and read/write heads
- TCP/IP, MODBUS/TCP, EtherNet/IP and PROFINET IO protocol
- Connector acc. to AIDA specifications
- Integrated switch allows line topology

IDENTControl control interface with Ethernet interface for TCP/IP, PROFINET, EtherNet/IP, and MODBUS TCP protocols



Function

The innovative concept of the RFID identification system IDENTControl from Pepperl+Fuchs has many advantages in comparison to other systems. The core piece of the system is the evaluation unit IDENTControl.

Thanks to the integrated interfaces for all standard field bus systems such as PROFIBUS, EtherNet, PROFINET IO, DeviceNet, serial connections (RS 232/RS 485/RS 422) and numerous connection options for inductive write/read heads as well as microwave antennas, the evaluation unit IDENTControl can be adjusted to your needs in a flexible and easy manner.

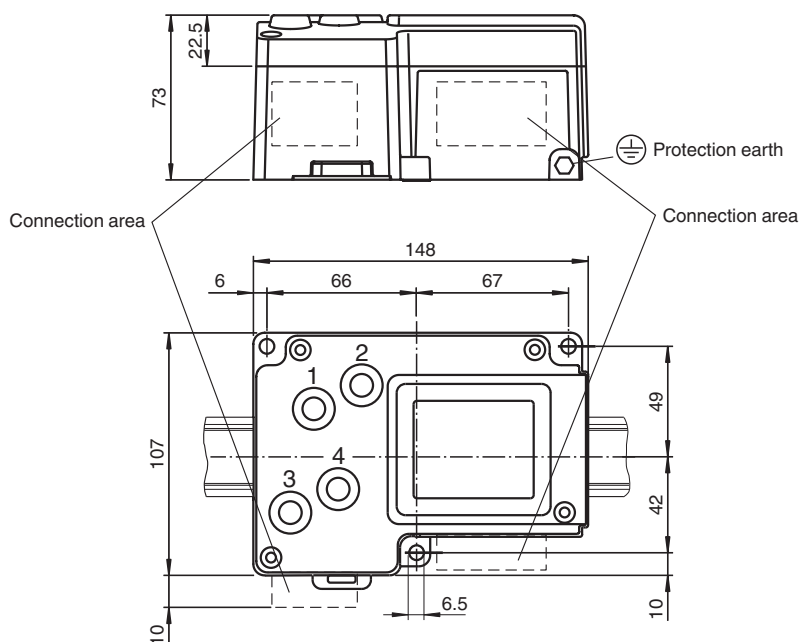
LEDs indicate operating power and bus communication, connected write/read heads and active write/read commands.

Mounting the unit onto DIN mounting rails is easy thanks to the snap-fits on the back of the housing of the evaluation unit IDENTControl.

With its L-shaped housing, the evaluation unit including bus connector fits into a 120 mm grid in the switch cabinet. The mounting depth of 70 mm furthermore enables installation in flat switch boxes with a depth of only 100 mm.

There are 3 further mounting holes for field mounting.

Dimensions



Release date: 2020-04-28 Date of issue: 2020-04-28 Filename: 213244_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

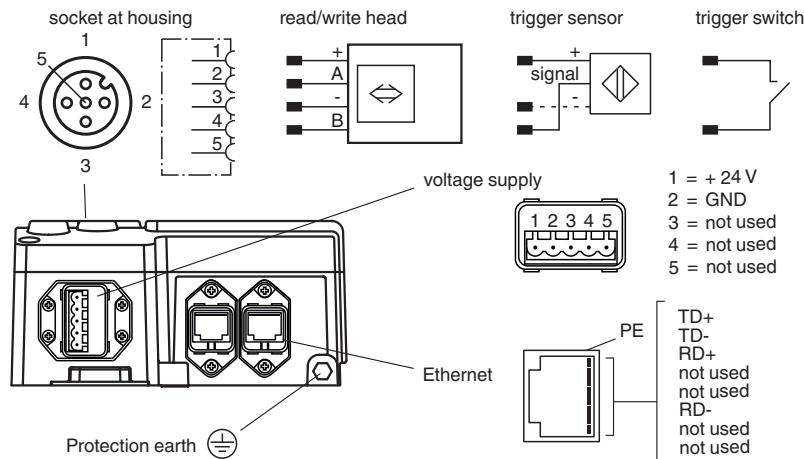
General specifications			
Number of read/write heads		max. 4 alternative 2 read/write heads and 2 trigger sensors	
UL File Number		E87056	
Functional safety related parameters			
MTTF _d		110 a	
Mission Time (T _M)		10 a	
Diagnostic Coverage (DC)		0 %	
Indicators/operating means			
LEDs CH1, CH2, CH3, CH4		Status indicator for read/write heads green: command at read/write head active yellow: approx. 1 second long, if command was successfully executed	
LED PWR/ERR		green: power on red: PROFINET bus failure	
LED Link1/Link2		green: network connection	
LED Traffic		green: flashes in rhythm with the transmitted data	
LC display		two-line multi-function display with 12 characters per line configuration of the control interface and display of connected read/write heads as additional pictograms; easy and direct selection of operating commands	
Button		4 keys: ESC, up, down and return	
Electrical specifications			
Rated operating voltage	U _e	20 ... 30 V DC , PELV	
Ripple		≤ 10 % at 30 V DC	
Current consumption		≤ 8 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			
Physical		Ethernet	
Protocol		SMTP HTTP TCP/IP (Port 10000) MODBUS/TCP EtherNet/IP PROFINET IO	
Transfer rate		10 MBit/s or 100 MBit/s	
Interface 2			
Physical		Ethernet	
Protocol		SMTP HTTP TCP/IP (Port 10000) MODBUS/TCP EtherNet/IP PROFINET IO	
Transfer rate		10 MBit/s or 100 MBit/s	
Directive conformity			
Electromagnetic compatibility			
Directive 2014/30/EU		EN 61326-1	
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		-30 ... 80 °C (-22 ... 176 °F)	
Climatic conditions		air humidity max. 96 %	
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	

Release date: 2020-04-28 Date of issue: 2020-04-28 Filename: 213244_eng.pdf

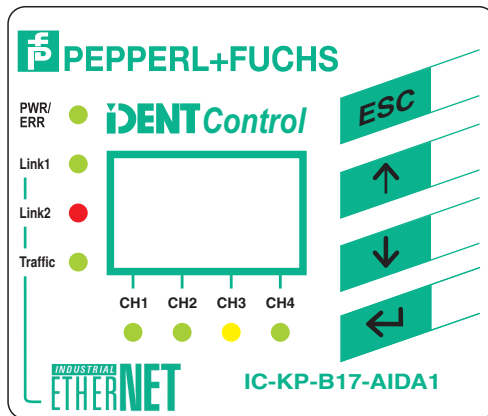
Technical Data

Connection	Read/write heads: shielded, 4-pin, M12 connector Power supply: MSTB AIDA Protective earth: M6 earthing screw Ethernet: RJ-45 AIDA
Material	
Housing	powder coated aluminum
Installation	snap-on to 35 mm standard rail or screw fixing
Mass	approx. 1000 g

Connection



Assembly



Accessories

	V1-G-2M-PUR-ABG-V1-W	Connecting cable, M12 to M12, PUR cable 4-pin, shielded
	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

Accessories

	ICZ-AIDA1-B	Blind plug for IC-KP-B17-AIDA1
	CBL-PUR-PN-GN-04x034-100M	Cable, PROFINET, PUR/PE, 4-wire, shielded
	ICZ-AIDA3-MSTB	MSTB connector, lockable
	ICZ-AIDA3-MSTB-0,2M-PUR-V1-G	Connection cable MSTB to M12 connector
	ICZ-AIDA3-MSTB-5M-PUR	Connection cable MSTB to cable tail
	ICZ-AIDA2-V45	Plug connector for RJ-45
	ICZ-AIDA2-V45-0,2M-PUR-V1D-G	Connecting cable RJ-45 to M12 D-coded
	ICZ-AIDA2-V45-5M-PUR-V45-G	Connecting cable RJ-45 to RJ-45, PUR cable 4-pole, CAT5e