



## Control interface unit

### IC-KP-R2-V1

- Max. 4 read/write heads connectable
- Alternative 2 read/write heads and 2 trigger sensors can be connected
- LC display with background lightning
- Direct operation via 4 keys
- LED status indicator of bus communication and read/write heads

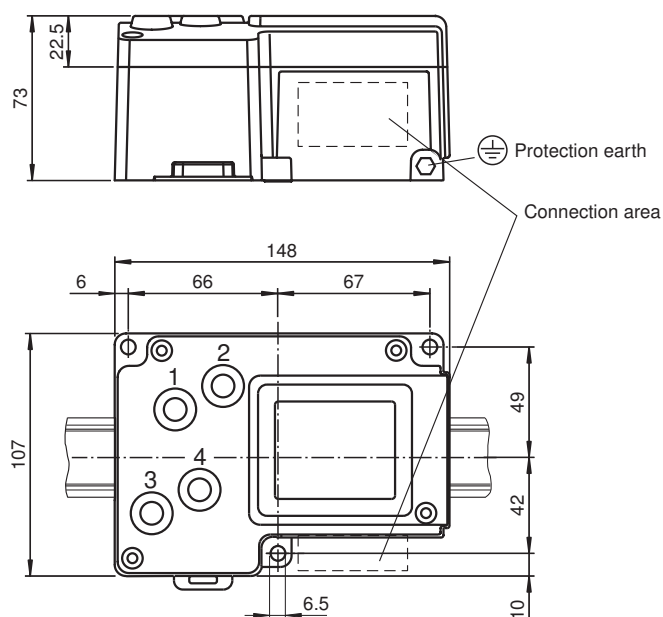
Control interface unit IDENTControl with serial interface RS-232



## 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



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

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**PEPPERL+FUCHS**

## Technical Data

### General specifications

|                            |                                                                |
|----------------------------|----------------------------------------------------------------|
| Number of read/write heads | max. 4<br>alternative 2 read/write heads and 2 trigger sensors |
| UL File Number             | E87056                                                         |

### Functional safety related parameters

|                                |       |
|--------------------------------|-------|
| MTTF <sub>d</sub>              | 190 a |
| Mission Time (T <sub>M</sub> ) | 10 a  |
| Diagnostic Coverage (DC)       | 0 %   |

### Indicators/operating means

|                 |                                                                                                                                                                                                                           |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| LEDs 1, 2, 3, 4 | Status indicator for read/write heads<br>green: command at read/write head active<br>yellow: approx. 1 second long, if command was successfully executed                                                                  |
| LED PWR/ERR     | green: power on<br>red: Hardware fault                                                                                                                                                                                    |
| LED UL          | green: Interface Power ON/OK                                                                                                                                                                                              |
| LED TxD         | green: flashes in rhythm with the transmitted data                                                                                                                                                                        |
| LED RxD         | green: flashes in rhythm of receiving data                                                                                                                                                                                |
| LC display      | two-line multi-function display with 12 characters per line<br>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 <sub>e</sub> | 20 ... 30 V DC, PELV                                                                   |
| Ripple                  |                | ≤ 10 % at 30 V DC                                                                      |
| Current consumption     |                | ≤ 2 A incl. read/write heads                                                           |
| Power consumption       | P <sub>0</sub> | 2.5 W Without read/write heads                                                         |
| Galvanic isolation      |                | basic insulation acc. to DIN EN 50178, rated insulation voltage of 50 V <sub>eff</sub> |

### Interface

|               |                                            |
|---------------|--------------------------------------------|
| Physical      | RS 232                                     |
| Protocol      | ASCII                                      |
| Transfer rate | 1200; 2400; 4800; 9600; 19200; 38400 Bit/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 |
|----------------------|-----------|

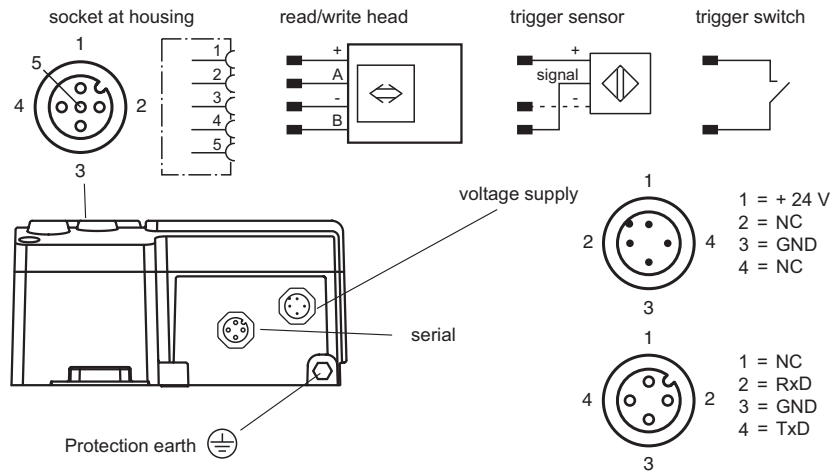
### Ambient conditions

|                             |                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Ambient temperature         | -25 ... 70 °C (-13 ... 158 °F)                                                                                           |
| Storage temperature         | -30 ... 80 °C (-22 ... 176 °F)                                                                                           |
| Climatic conditions         | air humidity max. 96 %<br>Salt spray resistant to EN 60068-2-52                                                          |
| Shock and impact resistance | Oscillation (Sine): 5 g, 10 - 1000 Hz to EN 60068-2-6<br>Shock (Half-sine): 30 g, 11 ms in accordance with EN 60068-2-27 |

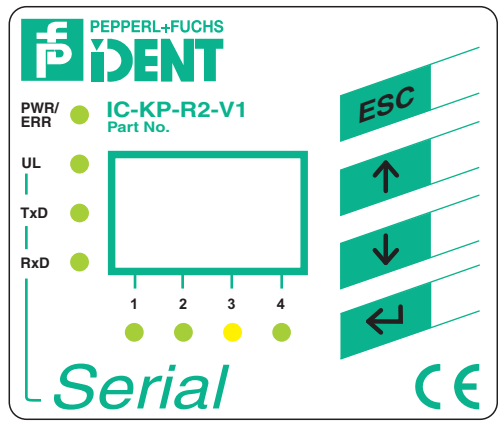
### Mechanical specifications

|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Degree of protection | IP67                                                                                                                                                  |
| Connection           | Read/write heads: shielded, 4-pin, M12 connector<br>Power supply: M12 connector<br>Protective earth: M6 earthing screw<br>RS 232: M12 plug connection |
| Material             |                                                                                                                                                       |
| Housing              | powder coated aluminum                                                                                                                                |
| Installation         | snap-on to 35 mm standard rail or screw fixing                                                                                                        |
| Mass                 | approx. 1000 g                                                                                                                                        |

Connection



Assembly



Accessories

|  |                                 |                                                              |
|--|---------------------------------|--------------------------------------------------------------|
|  | <b>V1S-G-0,15M-PUR-ABG-SUBD</b> | Adapter M12 on Sub-D for PC connection with null modem cable |
|  | <b>V1-G-2M-PUR-ABG-V1-W</b>     | Connecting cable, M12 to M12, PUR cable 4-pin, shielded      |
|  | <b>V1-G-5M-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>V1-G-5M-PUR</b>              | Female cordset, M12, 4-pin, PUR cable                        |
|  | <b>V1S-G-5M-PUR-ABG-SUBD9</b>   | Adapter, M12 x 1, to sub-D, 9-pin                            |

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