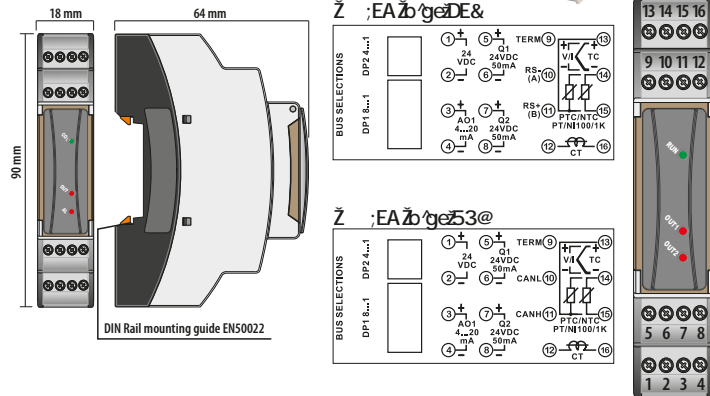


# ISO-plus.RS4 ISO-plus.CAN Controller



## Dimensions and wiring diagram



## 2.3 Dip switch

- DIP 1 – Slave address**
- If contacts 1..8 are OFF, modbus slave address is selected on par. 111 *5L Ad.*
  - Determines modbus slave address, in binary code as indicated below:  
00000001=1; 00000010=2; 00000011=3; 00000100=4; 00000101=5;  
00000110=6; 00000111=7; 01111101=125; 01111110=126; 01111111=127;  
10000000=128; 10000001=129; 10000010=130; 11111011=251;  
11111100=252; 11111101=253; 11111110=254.
- DIP 2 - Baud rate and loading default values**
- If contacts 1..3 are OFF, modbus baud rate is selected on par. 112 *bd.r.t.*
  - Contacts 1..3 determine modbus baud rate, using following values:  
001=4800; 010=9600; 011=19200; 100=28800; 101=38400; 110=57600; 111=115200.
  - If contact 4 is ON, parameters and all eeprom data are loaded with factory values (default).

## 1 Electrical wirings

This controller has been designed and manufactured in conformity to Low Voltage Directive 2006/95/EC , 2014/35/EU (LVD) and EMC Directive 2004/108/EC, 2014/30/EU (EMC). For installation in industrial environments please observe following safety guidelines:

- Separate control line from power wires.
- Avoid proximity of remote control switches, electromagnetic contactors, powerful engines and use specific filters.
- Avoid proximity of power groups, especially those with phase control.
- It is strongly recommended to install adequate mains filter on power supply of the machine where the controller is installed, particularly if supplied 230Vac. The controller is designed and conceived to be incorporated into other machines, therefore CE marking on the controller does not exempt the manufacturer of machines from safety and conformity requirements applying to the machine itself.

### For permanently connected equipment:

- supply wiring must be ≤ 20 Awg with cables suitable for temperatures > 70 °C;
- for requirements about any external switch or circuit-breaker see EN 61010-1 par. 6.11.3.1 and about external overcurrent protection devices see EN 61010-1 par. 9.6.2; the switch or circuit-breaker must be near the equipment.

## 2 General features

|                      |  |
|----------------------|--|
| Box                  | DIN43880, 18 x 90 x 64 mm  |
| Power supply         | 24 VDC ±15% - galvanical isolation 1,5KV                                     |
| Power consumption    | Max 3 W  |
| Operating conditions | Temperature 0-45 °C, humidity 35..95 RH%                                     |
| Material             | Box: PC UL94V0 self-extinguishing, front panel: PC UL94V0 self-extinguishing |
| Weight               | Approx. 30 g   |
| Sealing              | IP20 (box and terminal blocs)  |
| Quick set-up options | Software LABSOFTVIEW (Front mini-USB)  |

## 2.1 Inputs

|                                |   |
|--------------------------------|---|
|                                | Resolution 16 bit.<br>Tolerance (25 °C) ± 0.3% ±1 digit (on F.S.)                                       |
|                                | <b>Thermocouples:</b> type K, S, R, J, T, E, N, B (automatic compensation of the cold junction 0..50°C) |
| Configurable analogue input    | <b>Thermoresistances:</b> PT100, PT500, PT1000, Ni100, PTC1K, NTC10K (β 3435K)                          |
|                                | <b>V/I input:</b> 0..10 V (23000 points), 0/4..20mA (26000 points), 0..60 mV (24000 points)             |
|                                | <b>Potentiometer:</b> 1..150 KΩ (50000 points)  |
| Sampling time                  | 100 ms (10 Hz)  |
| Current Transformer (CT) input | CT 50 mAac, 50/60Hz - 100 μs (4096 points)  |

## 2.2 Outputs

|                      |   |
|----------------------|---|
| 2 SSR                | 24 VDC - 50 mA max  |
| Analogue output      | 0/4..20 mA (34000 points ± 0,2% F.S.) for command output, alarm output or retransmission PV/SPV                               |
| Serial communication | <b>DRR460-12A-T128:</b> RS485 Modbus RTU - Slave (4800..115200 bit/s)<br><b>DRR460-12A-CAN:</b> CANOpen slave (50K..1M Bit/s) |