

◆ Technical Data:

Model:PR-E-16DC-DA-TN

**RIEV/TECH**



- 1.16 pcs extensions can be applied to the PR-18 or PR-24 CPU
2. Connection cable length can be customized (Max. 30 Meters for the distance between the end extension and CPU)

### Technical Index

| <b>Power supply:</b>                          |   |
|---|---|
| Nominal voltage                               | DC 12-24V   |
| Operating limits                              | DC 10.8-28.8V   |
| Immunity from micro power cuts                | Typ.5 ms  |
| Max. Startup current                          | Max. 0.25A  |
| Max. absorbed power                           | 3.5 W (10.8V dc) ; 4.5 W (28.8V dc)   |
| Protection against polarity inversions        | Yes   |
| <b>Input parameters:</b>                      |   |
| Input No                                      | 8 ( I1-I8 )   |
| Digital input                                 | 8 ( I1-I8 )   |
| Analogue input                                | 4 ( I1-I4)(0..10V DC)   |
| <b>Digital inputs( I5-I8 )</b>                |   |
| Input voltage                                 | DC0-28.8V   |
| Input signal0                                 | < 5V DC; <1mA   |
| Input signal1                                 | > 8 V DC;>1.7mA   |
| Input current                                 | 2.3mA @ 10.8V dc<br>2.6mA @ 12.0 V dc<br>5.2 mA @ 24 V dc<br>6.3 mA @ 28.8 V dc |
| Response time                                 | 0 to 1 : <1 ms ; 1 to 0 : <1 ms   |
| Maximum counting frequency                    | 4 Hz(I5--I8)  |
| Sensor type                                   | Contact or 3-wire PNP   |
| Input type                                    | Resistive   |
| Isolation between power supply and inputs     | None  |
| Isolation between inputs                      | None  |
| <b>Inputs used as digital inputs( I1-I4 )</b> |   |
| Input voltage                                 | DC0-28.8V   |
| Input signal0                                 | < 5V DC;<0.1mA  |
| Input signal1                                 | > 8 V DC;>0.3mA   |
| Input current                                 | 0.4mA @ 10.8V dc<br>0.5mA @ 12.0 V dc<br>1.2mA @ 24 V dc                        |

|   |  |
|---|--|
|   | 1.5mA @ 28.8 V dc  |
| Response time                                     | 0 to 1 : Typ. 1.5 ms ; 1 to 0 : Typ. 1.5 ms                              |
| Maximum counting frequency                        | Typ.: 4 HZ   |
| Sensor type                                       | Contact or 3-wire PNP  |
| Input type  | Resistive  |
| Isolation between power supply and inputs         | None   |
| Isolation between inputs                          | None   |
| <b>Inputs used as analog inputs( I1-I4 )</b>      |  |
| Measurement range                                 | DC 0---10V   |
| Input impedance                                   | Min, 24KΩ ; Max. 72KΩ  |
| Input voltage                                     | 28.8 V DC max  |
| Resolution  | 9bit ,0.015V   |
| Accuracy at 25 °C                                 | ± (Max.0.03)V  |
| Accuracy at 55 °C                                 | ± (Max.0.06)V  |
| Isolation between analog channel and power supply | None   |
| Cable length                                      | 10 m max. shielded and twisted   |
| <b>Output parameters:</b>                         |  |
| Output No.  | 8 (Q1-Q8)  |
| Output type                                       | Transistor(PNP)  |
| Breaking voltage                                  | DC 5--30V  |
| Nominal voltage                                   | ≤ Supply voltage   |
| Nominal current                                   | Max. 0.3 A per channel   |
| Max. breaking current                             | 0.65 A   |
| Voltage drop                                      | < 2 V for I = 0.3 A (at state 1)   |
| Response time                                     | Make ≤70 ms<br>Release ≤ 70 ms   |
| Frequency (Hz)                                    | resistive load : 10 Hz<br>inductive load : 0.5 Hz                        |
| Built-in protections                              | Against overloads and short-circuits: No<br>Against overvoltages (*): No |
| Galvanic isolation                                | None   |
| <b>Other parameters:</b>                          |  |
| Operation temp                                    | -20°C-55°C   |
| Storage temp                                      | -40°C-70°C   |
| Weight  | Approx.300g  |

## Installation Dimensions & Wiring Diagram

