PCD7.L120 -Input / Output „RIO" module with 4 digital inputs 24 VAC/DC and

## 2 Relays 250 VAC/ 16A - Application module for operation mode "Light" and "Blinds"

## Description

The RIO module was developed as a S-Bus data node for local switching tasks. Via a DDC of the type PCDx / PCS1, inputs can be read, outputs set and manual/auto function monitored. Two address switches $(\times 1 / \times 10)$ on the front panel allow module addressing and identification. Addresses can be set between 00 and 99 . Up to 100 RIO modules and a maximum of 3 PCD stations can be connected to one bus branch simultaneously. If the bus cycle time is critical, fewer than 30 slaves should be operated in one segment.


## Mounting and commissioning to be conform with current regulations:

## 1. Power-off the installation

2. Place module onto the place of destination
3. Cable with max. single wire $1,5 \mathrm{~mm}^{2}$ insert into the unit. With
consideration of the protection class.
4. Connect the wires into the spring terminals

Connect supply voltage and field bus to the dedicated spring terminals.

Caution!!
Do not exchange the bus and supply spring terminals.
The module is EMC proved (electro magnetic compatibility) up to an amplitude of $\mathbf{2 0 0 0}$ V. Voltage peaks caused by higher inductive loads may initiate a module reset. In such cases it is recommended to protect the relay contacts by an additional RC element.

Connection examples $1+2$
Connection example 3


Operation behaviour "RIO" mode
The device works as an independent input/output module. The input information will be transmit to the master station by the s-bus protocol. The relay output will switch on/off depending of the master station demands.
Operation behaviour "application" mode
The input information switches the relay outputs direct depending on the chosen application form. On a input information follows a direct relay reaction without delay time. Application forms "light" and "blind" are chosable. At every time the master station is able to have influence into the relay condition.

## "Display Input "

| $\frac{\text { Address }}{1}$ |  |
| :---: | :--- |
|  | Information <br> $0=$ Status input 1 off <br> $1=$ Status input 1 on (Signal: $>7$ VAC/DC) <br> 2 |
| $0=$ Status input 2 off <br> $1=$ Status input 2 on (Signal: $>7$ VAC/DC) <br> 3 | $0=$ Status input 3 off <br> $1=$ Status input 3 on (Signal: $>7$ VAC/DC) <br> 4 |
|  | $0=$ Status input 4 off |
| $1=$ Status input 4 on (Signal: $>7$ VAC/DC) |  |



Application Light (Register 12-"1" / Register 13-"1")


Application Blinds (Register 12-"1" / Register 13-"0")
Switch shorttime pushing (Lamella - Angle rotation)


## Switch longtime pushing (Up/Down Function)



Running time - Interruption (Up/Down Function)


