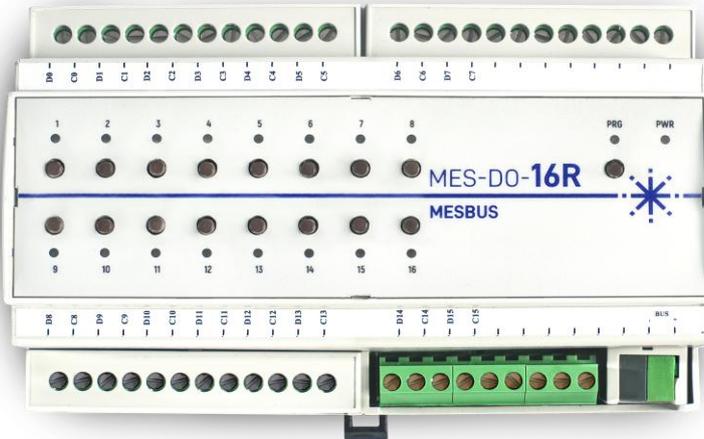


16 Channel Actuator – Mesbus Technical Documentation

MES-DO-16R



Features:

- 16 Individual outputs / 8 Shutter Channels
- Manual output operation with push button and LED status indicator
- 10 Scene functionality
- Din rail mount assembly
- Total data saving on bus failure
- Possibility of connecting different phases in different outputs
- Programming button
- CE Mark

| General Product Specifications | | | | |
|--------------------------------|---------------------|--|------------|-----|
| Type of Device | | Electric control operation device | | |
| MESBUS Supply | Voltage (typical) | | 29VDC SELV | |
| | Voltage Range | | 21-31 VDC | |
| | Maximum Consumption | Voltage | mA | mW |
| | | 29VDC (typical) | 11 | 320 |
| | 24VDC | 12.5 | 300 | |
| Bus Connection | | Typical Bus Connector TP1, 0.5 mm ² section | | |
| External supply | | No | | |
| Operating temperature | | 0 – 70 °C | | |
| Storage Temperature | | -25 to + 75°C | | |
| Ambient Humidity | | 5 to 95% RH (No Condensation) | | |
| Storage Humidity | | 5 to 95% RH (No Condensation) | | |
| Manual Test facility | | 16 Push button switches – ON/OFF | | |
| Usage | | Indoor, to be mounted inside distribution boxes or electrical panels with DIN rail | | |
| IP Class | | IP 20 | | |
| Power Failure Response | | Data saving | | |
| Response when starting | | Data recovering and other settings | | |
| Operation Indication | | 1 Programming LED indicates programming mode (Red). 16 Output status LED indicators reflect current output state (Green). | | |

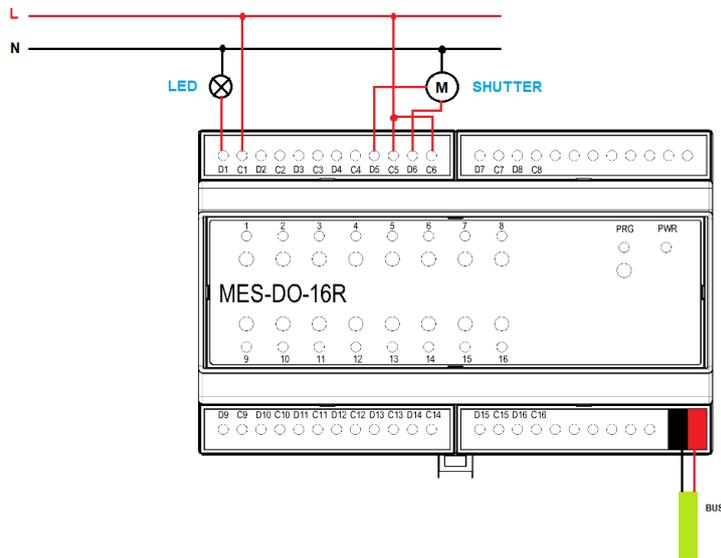
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| Output Specifications | | |
|-----------------------------|--|----------------------|
| No. of Outputs | 16 | |
| Control of each channel | ON/OFF | |
| Output Type | Relay based control device | |
| Output Relay rating | 16A/250VAC | |
| Contact type | Potential free outputs through relays with tungsten pre-make contact | |
| Rated current by output | 16 (6) A*250VAC (4000VA) / 16 (6) A *30V DC (480W) | |
| Maximum Inrush current | 800A/200µs (inductive load) | |
| | 165A/20ms (Resistive load) | |
| Outputs per common | 1 individual output | |
| Different phases connection | Possibility to connect different phases in adjoining outputs. | |
| Maximum current | 16A | |
| Maximum Power | Resistive Load 4000W | |
| | Inductive Load 1500W | |
| Connection Type | Screw Terminal Block | |
| Recommended cable selection | 0.5mm ² to 4mm ² (26-10AWG) | |
| Cable Type | Stranded or Solid wire. | |
| Response time | 50ms | |
| Expected Life | Mechanical | 3 million operations |
| | Electrical | 5,000 cycles |

Wiring Example: 1. LED 2. Shutter



⚠ SAFETY INSTRUCTIONS

- Installation should only be performed by qualified professionals according to the laws and regulations.
- Do not connect the mains voltage nor any other external voltage to any point of the Mesbus connector; it would represent a risk for the entire system. The facility must have enough insulation between the mains (or auxiliary) voltage and the Mesbus or the wires of other accessories, in case of being installed.
- Once the device is installed (in the panel or box), it must not be accessible from outside.
- Keep the device away from water and do not cover it with clothes, paper or any other material while in use.



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