

2 Channel Multifunction Actuator – Mesbus Technical Documentation

MES-DICE23



Features:

- 2 Individual outputs / 1 Shutter Channels
- 3 Digital and Analog inputs
- Manual output operation with push button and LED status indicator
- 10 scene functionalities
- Logical functions included
- Total data saving on bus failure
- Possibility of connecting different phases in different outputs
- Programming button with LED indication
- Dimension : 50.5 (L) X 55.5 (H) X 34.1 (D) mm.
- CE Marking*

General Product Specifications

Type of Device		Electric operation control device		
MESBUS Supply	Voltage (typical)	29VDC SELV		
	Voltage Range	21-31 VDC		
	Maximum Consumption	Voltage 29VDC (typical)	mA 5	mW 145
	Bus Connection	Typical Bus Connector TP1, 0.8 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	2 Push button switches – On/Off or Up/Down			
Usage	Indoor, to be mounted inside the wall back box			
Dimension	50.5 (L) X 55.5 (H) X 34.1 (D) mm			
IP Class	IP 20			
Power Failure Response	Data saving			
Response when starting	Data recovery and other settings			
Operation Indication	1 Programming LED indicates programming mode (Red) 2 Output status LED indicators reflect current output state (Green)			
No. of Individual Outputs	2			
No. of Shutter channels	1			
Manual Test facility	Yes 2 push buttons are provided for switching / shutter			

Output Specifications

Output Type	Relay based control device
Output Relay rating	16A/277VAC

Messung Systems Pvt. Ltd.

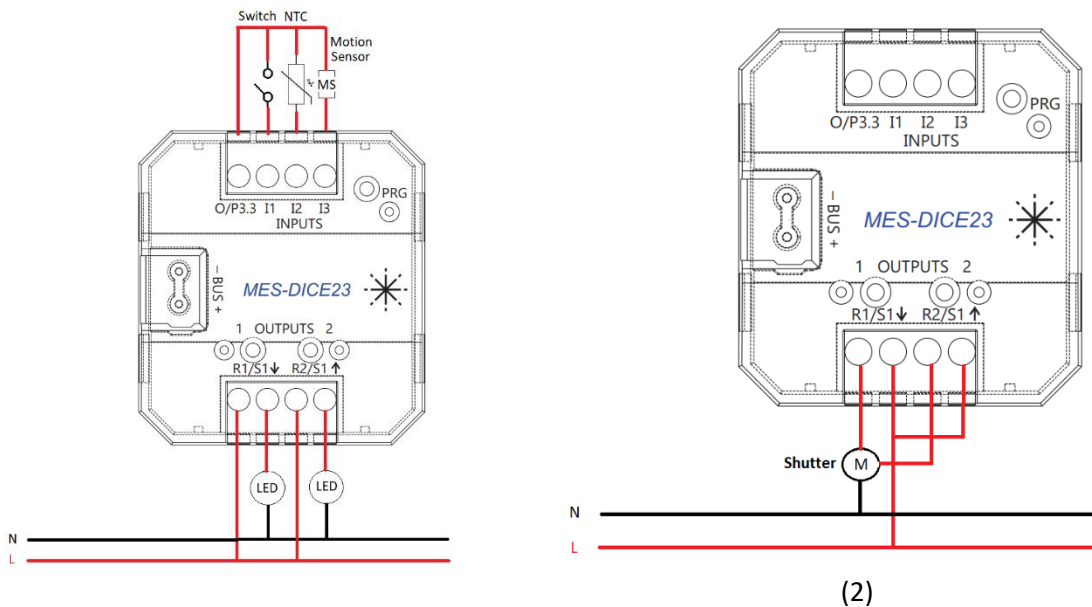
501 Lunkad Sky Vista, Viman Nagar, Pune 411 014, India.

T: +91 20 6649 2800 | e: info@messung.com | w: www.messung.com

Max. Switching Power (Resistive Load)	16A*277VAC (4,432VA)	
Maximum Inrush current	100 A/2.5ms (Resistive load)	
	200A/1.25ms (Ballast Load)	
Outputs per common	1 output (switching)	
	2 outputs (shutter)	
Different phases connection	Possibility to connect different phases in adjoining outputs.	
Maximum current	16A	
Connection Type	Screw Terminal Block	
Recommended cable selection	0.5 mm ² to 4 mm ² (26-10 AWG)	
Cable Type	Stranded or Solid wire	
Expected Life	Mechanical	10 ⁶ operations
	Electrical	2 x 10 ⁴ cycles

Input Specifications	
Number of Inputs	3
Operation Voltage (common)	+3.3V DC
Operating Current (per input)	1mA @ +3.3V DC
Connection Type	Screw Terminal Block
Recommended cable selection	0.5 mm ² to 2.5 mm ² (20-14 AWG)
Cable Type	Stranded or Solid wire
Maximum Cable Length	30m
NTC Probe Length	Up to 30m
Temperature Resolution	0.2°C
Temperature Sensor type	Any NTC with known resistance values at 3 points in the range (-55, 150°C)

Wiring Example: 1. Individual output and Inputs 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 and 3.3V Output pin; 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.



Messung Systems Pvt. Ltd.

501 Lunkad Sky Vista, Viman Nagar, Pune 411 014, India.
 T: +91 20 6649 2800 | e: info@messung.com | w: www.messung.com