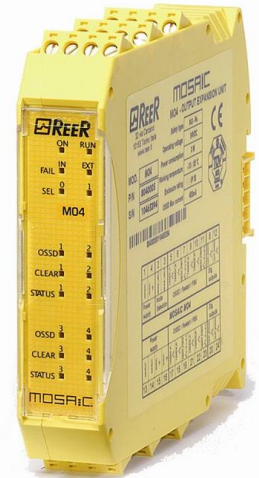


MO2/MO4 OSSD STATIC OUTPUTS EXPANSION MODULES

The MO2/MO4 expansion modules provide the MOSAIC system with:

- * 2 (MO2) or 4 pairs (MO4) of solid state safety outputs (OSSD).
- * 2 (MO2) or 4 (MO4) Digital outputs programmable with the *Mosaic Safety Designer* software.
- * 2 (MO2) or 4 (MO4) Start/Restart interlock input + external relays Feedback (EDM).
- * Connection to M1 via MSC 5-way ReeR proprietary bus.
- * Amovable terminal blocks for the electrical connections with external devices.



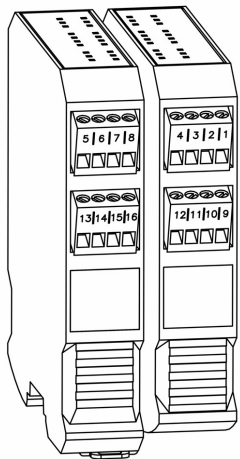
MO4 safety module

Technical Data

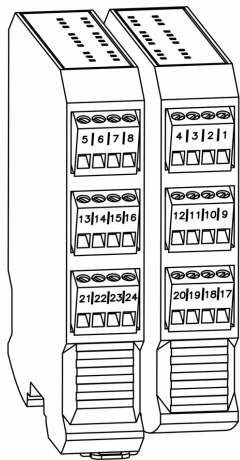
Model	MO2	MO4
PFHd (IEC 61508:1998)	4,08E-09	5,83E-09
Rated voltage	24VDC ± 20%	
Dissipated power	3W max	
Digital OUTPUTS (No./description)	2	4
	PNP active high	
OSSD (No./description)	2 pairs	4 pairs
	Solid state safety outputs PNP active high	
Module connection to Master	ReeR proprietary 5-pole bus (MSC)	
Connection cable cross-section	0,5 ÷ 2,5 mm ² / AWG 12÷30 (solid/stranded)	
Max length of connections	100m	
Operating temperature	-10 ÷ 55°C	
Max surrounding air temperature	55°C	
Storage temperature	-20 ÷ 85°C	
Relative humidity	10% ÷ 95%	
Enclosure material	Polyamide	
Enclosure protection class	IP 20	
Terminal blocks protection class	IP 2X	
Fastening	Quick coupling to rail according to EN 60715	
Dimensions (h x l x d)	108 x 22,5 x 114,5	



Electrical Connections



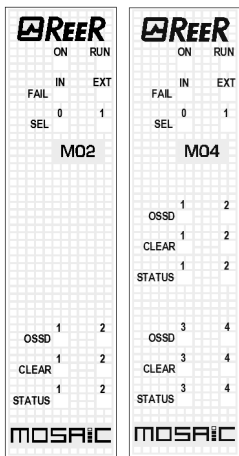
MO2



MO4

PIN	SIGNAL NAME		OPERATION
	MO2	MO4	
1	24VDC	24VDC	24VDC power supply
2	NODE_SELO	NODE_SELO	Node selection
3	NODE_SEL1	NODE_SEL1	
4	GND	GND	0VDC power supply
5	OSSD1_A	OSSD1_A	Static output 1
6	OSSD1_B	OSSD1_B	
7	RESTART_FBK1	RESTART_FBK1	Feedback/Restart 1
8	OUT_STATUS1	OUT_STATUS1	Digital Programmable Output 1
9	OSSD2_A	OSSD2_A	Static output 2
10	OSSD2_B	OSSD2_B	
11	RESTART_FBK2	RESTART_FBK2	Feedback/Restart 2
12	OUT_STATUS2	OUT_STATUS2	Digital Programmable Output 1
13	24VDC	24VDC	24VDC power supply
14	n.c.	24VDC	24VDC power supply
15	GND	GND	0VDC power supply
16	n.c.	GND	0VDC power supply
17	-	OSSD4_A	Static output 4
18	-	OSSD4_B	
19	-	RESTART_FBK4	Feedback/Restart 4
20	-	OUT_STATUS4	Digital Programmable Output 4
21	-	OSSD3_A	Static output 3
22	-	OSSD3_B	
23	-	RESTART_FBK3	Feedback/Restart 3
24	-	OUT_STATUS3	Digital Programmable Output 3

Light Signals



MO2

MO4

	RUN GREEN	IN FAIL RED	EXT FAIL RED	SEL ORANGE	OSDD1/2 RED/GREEN	CLEAR1/2 YELLOW	STATUS1/2 YELLOW
MO2	OFF if the unit is waiting for the first communication from the MASTER	OFF op. OK	OFF op. OK	Shows the NODE_SELO/1 signal table	RED with output OFF	ON waiting for RESTART	OUTPUT condition
	FLASHES if no INPUT or OUTPUT requested by the configuration				GREEN with output ON	Blinking NO feedback	
	ON if INPUT or OUTPUT is requested by the configuration						
MO4	OFF if the unit is waiting for the first communication from the MASTER	OFF op. OK	OFF op. OK	Shows the NODE_SELO/1 signal table	RED with output OFF	ON waiting for RESTART	OUTPUT condition
	FLASHES if no INPUT or OUTPUT requested by the configuration				GREEN with output ON	Blinking NO feedback	
	ON if INPUT or OUTPUT is requested by the configuration						