MOSAIC MI12T8 INPUT EXPANSION MODULE

The MI12T8 expansion module provides the MOSAIC system with:

∗ 12 digital inputs programmable with the *Mosaic Safety Designer* software.
∗ 8 output test to monitor short-circuits or overloads.
∗ Connection to M1 via MSC 5-way ReeR proprietary bus.
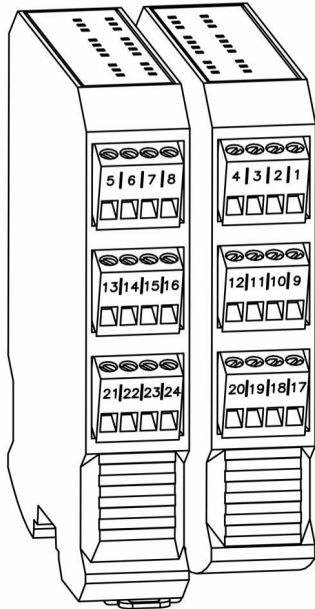∗ Amovible terminal blocks for the electrical connections with external devices.

MI12T8 safety module

Technical Data

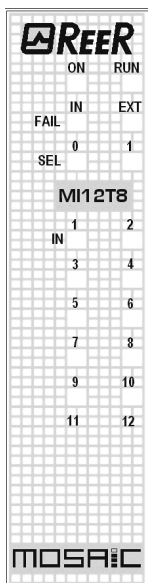| Model	MI12T8
PFHd (IEC 61508:1998)	5,60E-09
Rated voltage	24VDC ± 20%
Dissipated power	3W max
Digital INPUT (n°/description)	12 / PNP active high (EN 61131-2)
OUTPUT test (n°/description)	8 / to monitor short-circuits, overloads
M1 > module connection	ReeR proprietary 5-pole bus (MSC)
Connection cable cross-section	$0,5 \div 2,5 \ mm^2$ / 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

MI12T8

PIN	SIGNAL	OPERATION
1	24VDC	24VDC Power supply
2	NODE_SEL0	Node selection
3	NODE_SEL1	
4	GND	0VDC Power supply
5	INPUT1	Digital input 1
6	INPUT2	Digital input 2
7	INPUT3	Digital input 3
8	INPUT4	Digital input 4
9	OUT_TEST1	Short circuit detection output
10	OUT_TEST2	Short circuit detection output
11	OUT_TEST3	Short circuit detection output
12	OUT_TEST4	Short circuit detection output
13	INPUT5	Digital input 5
14	INPUT6	Digital input 6
15	INPUT7	Digital input 7
16	INPUT8	Digital input 8
17	OUT_TEST5	Short circuit detection output
18	OUT_TEST6	Short circuit detection output
19	OUT_TEST7	Short circuit detection output
20	OUT_TEST8	Short circuit detection output
21	INPUT9	Digital input 9
22	INPUT10	Digital input 10
23	INPUT11	Digital input 11
24	INPUT12	Digital input 12

MI12T8

Light signals

MI12T8

OPERATION	LED				
	RUN GREEN	IN FAIL RED	EXT FAIL RED	SEL ORANGE	IN1÷12 YELLOW
NORMAL OPERATION	**OFF** if the unit is waiting for the first communication from the MASTER	OFF	**OFF**	Shows the NODE_SEL0/1 signal table	INPUT condition
	FLASHES if no INPUT or OUTPUT requested by the configuration		**ON** incorrect external connection detected		**Flashes** only the number of the INPUT with the incorrect connection
	ON if INPUT or OUTPUT requested by the configuration				