

MAC-8

Technical Documentation AC Voltage Input Submodule

Please keep for further use !

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Revision History

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Revision	Date

Table of contents

1 General 5

2 Technical data of MAC-8 6

3 Signal description of MAC-8 6

MAC-8



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MAC 8 AC Voltage Input Submodule

8-Bit 110V AC or 220V AC

1 General

The MAC-8 input module is a submodule, which is galvanically decoupled by means of optocouplers, for the FOX-10 basic module. It provides eight digital AC inputs for 110 V or 220 V.

FOX-10: For operation in the I/O system, you can install up to four MAC-8s in the four slots of a FOX-10 basic module. This makes possible a maximum of 32 outputs per FOX-10. In addition, you can combine MAC-8s with different modules, e.g. digital inputs. Every MAC-8 occupies eight of the 32 bits of user information in the message. Depending on the slot (1 to 4), the module occupies one of the data bytes D0, D1, D2 or D3.

FOX-20: For operation in the I/O system, you can install up to three MAC-8s in a FOX-20 in slots 2,3 and 4.

Per input, there is one pin available on the connectors for P and one for N.

Two versions of the MAC-8 can be supplied:

- MAC-8/110 110 V AC
- MAC-8/220 220 V AC

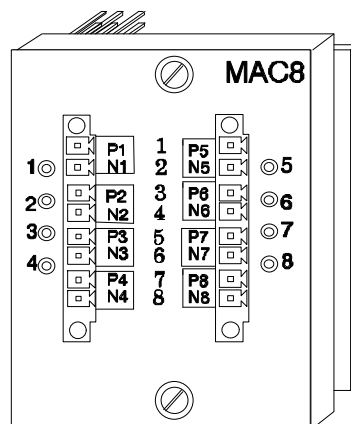


Figure: 8-Bit AC Input Module

2 Technical data of MAC-8

Inputs	8 AC voltage inputs 8 LED input status indicators
Input Specifications	MAC-8/110: 110 V AC MAV8/220: 220 V AC
Output Monitoring	Watchdog circuit
Voltage Supply	Not necessary
Switching Times	Since the positive half-wave is used for triggering, the times are always adapted to the positive half-wave. The make instant is the first detected peak value. The break instant is 40 ms after the last peak value was detected.
Housing	Module with front panel is mounted in the FOX-10 using two screws.
Dimensions (W x H x D), Weight	58 x 72 x 50 mm, approx. 300g
Temperature	Operation: $\pm 0..+55^{\circ}$ C Storage: $-20..+70^{\circ}$ C

3 Signal description of MAC-8

Pin	Signal	I/O	Description
L-1	P1	In	AC input channel 1 P (phase)
L-2	N1	In	AC input channel 1 N (conductor)
L-3	P2	In	AC input channel 2 P
L-4	N2	In	AC input channel 2 N
L-5	P3	In	AC input channel 3 P
L-6	N3	In	AC input channel 3 N
L-7	P4	In	AC input channel 4 P
L-8	N4	In	AC input channel 4 N
Pin	Signal	I/O	Description
R-1	P5	In	AC input channel 5 P
R-2	N5	In	AC input channel 5 N
R-3	P6	In	AC input channel 6 P
R-4	N6	In	AC input channel 6 N
R-5	P7	In	AC input channel 7 P
R-6	N7	In	AC input channel 7 N
R-7	P8	In	AC input channel 8 P
R-8	N8	In	AC input channel 8 N

Pin designations: L: left-hand row
R: right-hand row