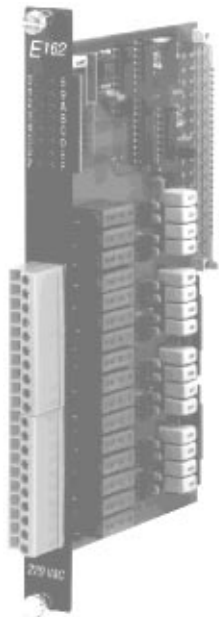


# A6

## DIGITAL INPUT MODULES, E162 - 16 INPUTS 220 VAC

PLC SYSTEMS  
MULTICONTROL COMPONENTS



### E162

- 16 Digital Inputs in 4 Groups
- Galvanic Isolation Between Individual Groups and to the PLC
- Input Voltage 220 VAC
- Input Delay - ca. 40 msec
- With Latch Memory
- With Varistor Overvoltage Protection
- Conforms to EN 61131-2:1994

#### SLOTS

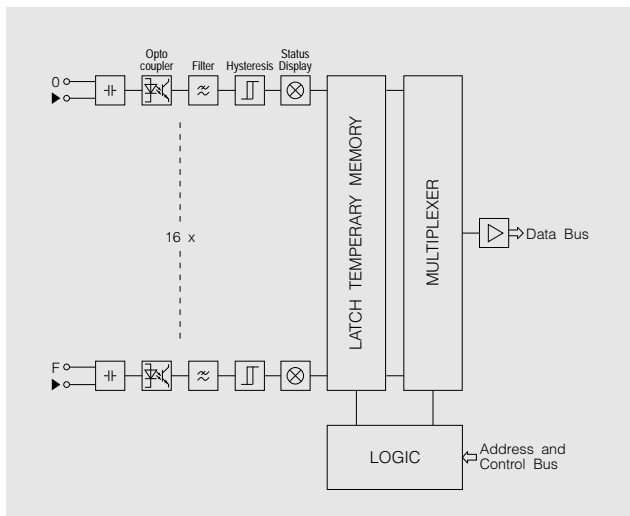
The E162 input module can be operated in all application slots of racks MULTI, MIDI and M264.

Rack	Slot	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
MULTI Base Rack		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MULTI Expansion Rack		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	● <sup>1)</sup>
MIDI		○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M264		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

#### ORDER DATA

<b>ECE162-3</b>	Digital Input Module, 16 Inputs, Four Galvanically Isolated Groups, Input Voltage 220 VAC, LED Status Displays, Latch Memory, Galvanic Isolation, Switching Delay ca. 40 msec, Varistor Overvoltage Protection, Conforms to EN 61131-2:1994
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#### DIAGRAM



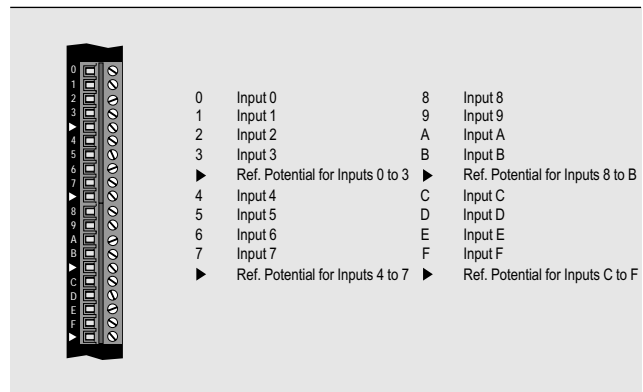
<sup>1)</sup> If using power supply modules which are equipped with extended diagnostic functions, slot F in the third expansion rack may not be used.

#### TECHNICAL DATA

#### E162

Number of Inputs Total	16
In Groups of	4
Electrical Isolation Input - PLC	YES
Group - Group	YES
Input - Input	NO
Input Voltage Nominal	220 VAC <sub>eff</sub>
Maximal	250 VAC <sub>eff</sub>
AC Input Frequency	45 to 55 Hz
Switching Threshold <sup>2)</sup> LOW Range	0 to 70 V <sub>eff</sub> / 0 to 2 mA
Switching Range	70 to 164 V <sub>eff</sub> / typ. 120 V <sub>eff</sub> with Hysteresis
HIGH Range	164 to 250 V <sub>eff</sub> / 4.6 to 7.8 mA
Switching Delay log. 0 → log. 1	Max. 40 msec, typ. 33 msec
log. 1 → log. 0	max. 30 msec, typ. 15 msec
Transfer of Input Status through CPU	With Software Latch Pulse at Program End (EOP)
Application Class	4 <sup>3)</sup>
Input Type	Digital Inputs Type 1 <sup>4)</sup>
Resistance to Disturbance Electrostatic Discharge ESD-B	15 kV (Max. Surge Energy C = 150 pF, Min. Source Impedance 150 Ω)
Interference Resistance Asymmetrical, Fast Transients	10 V / m 4 kV (max. Surge Energy 4 mJ / Peak at 2 kV, min. Source Impedance 50 Ω)
Symmetrical Attenuated Oscillation and Parallel Coupling	2 kV (min. Source Impedance 200 Ω)
Contamination	2 <sup>5)</sup>
Power Consumption At +8 V	0.6 W
Documentation	Hardware-Manual MULTICONTROL German MAHWMULTI-0 English MAHWMULTI-E French MAHWMULTI-F Italian MAHWMULTI-I Spanish MAHWMULTI-S

#### CONNECTIONS



- <sup>2)</sup> See section "Characteristic Curve" for more information
- <sup>3)</sup> Equipment for use in extra high voltage areas (conforms to DIN 57 109 / VDE 0109).
- <sup>4)</sup> Digital inputs suited for signals originating from electromagnetic switching devices such as relay contacts, push buttons, switches, etc. This type is not necessarily suitable for connecting semiconductor switches, proximity switches, ... (Conforms to EN 61131-2:1994).
- <sup>5)</sup> Most contamination is nonconductive. However, conductivity caused by moisture must be taken into consideration (Conforms to DIN 57 109 / VDE 0109). For printed circuit boards with a lacquer coating, grade 2 is the highest of the four grades.