



# Micro PLC





## Technical Data

Construction	Standard Relay
Mounting	Socket
Connector	FASTON Terminal® 6.3 mm / FASTON Terminal® 2.8 mm
Housing Dimensions	30 x 30 x 40 mm
Weight	33.7 g
Ambient Temperature	- 40 °C up to 85 °C
Storage Temperature	- 40 °C up to 85 °C
Protection Class	IP53
Operating Voltage U <sub>B</sub>	12 V / 24 V / 9 – 30 V
Current Consumption	250 µA + load current
Protection	Dependent on load current
Quiescent Current	250 µA
Continuous Current	10 / 15 A (Ö/S)

## Processor

Manufacturer	Texas Instruments
Processor Type	MSP430
Clock Frequency	8 MHz
Flash	4 KB
RAM	256 Byte

## Technical Examination

EMV	ECE R10 Rev. 5
E1 Approval Number	05 8091

## Possible Inputs and Outputs

Digital Inputs with Pull-Down	3
Analog Inputs	1
Digital Outputs	2

## Technical Data Inputs and Outputs

### Characteristics digital inputs

Input Voltage	0- 30 V
Switch-On	6-7 V
Switch-Off	3-4 V
Input Resistance	16.4 kOhm



### Characteristics Digital Outputs

Load Current High Side Driver	5A
Overload Resistance	Electronically via high side driver

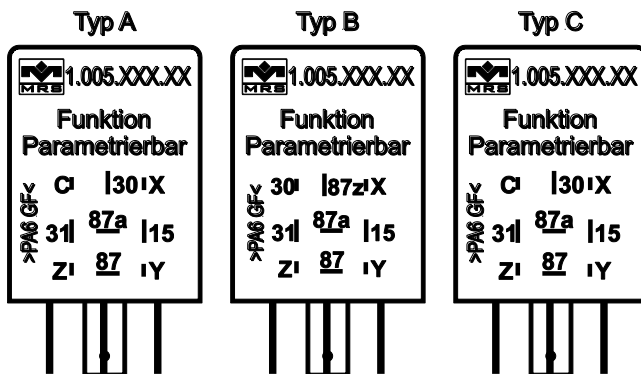
### Characteristics Analog Inputs

Input Voltage	0-33 V
Resolution	10 bit
Input Resistance	1.1 MOhm
Input Frequency	>1 kHz

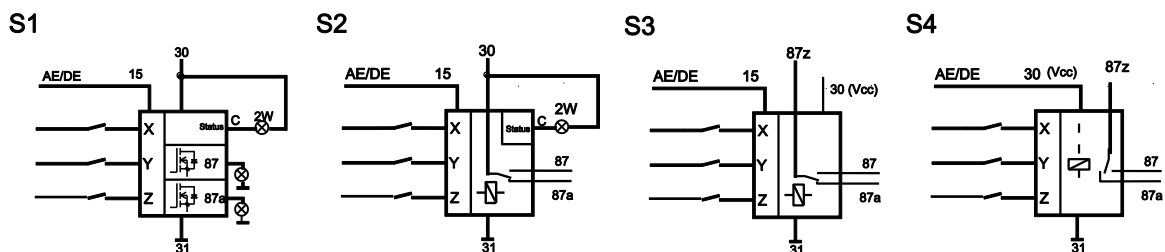
## Programming

Interface	The programming is done via relay contacts. This is a mechanical intervention / no need to open the housing.
Software	Graphical programming by MRS Realizer I. Complex applications can be implemented in "C-code".

## Design



## Connection Diagram





### Order Information

Part Name	Details	Type	Housing	Order Number
Micro PLC 9-30 V E1 EA1 1x442	3 Digital Inputs 1 Analog Input 1 HSD Output	A	S1/G2/T	1.005.355.00E
Micro PLC 9-30 V EA1 2x442	3 Digital Inputs 1 Analog Input 2 HSD Outputs	A	S1/G2/T	1.005.365.00E
Micro PLC 9-30 V EA1 2x442 C	3 Digital Inputs 1 Analog Input 2 HSD Outputs 1 Open Collector Output	A	S1/G2/T	1.005.371.00E
Micro PLC 12 V E3 EA1 OR1	3 Digital Inputs 1 Analog Input 1 Relay Output	A	S2/G2/T	1.005.151.00E
Micro PLC 24 V E3 EA1 OR1	3 Digital Inputs 1 Analog Input 1 Relay Output	A	S2/G2/T	1.005.251.00E
Micro PLC 12 V E3 EA1 OR1 C	3 Digital inputs 1 Analog inputs 1 Relay output 1 Open Collector Output	A	S2/G2/T	1.005.150.00E
Micro PLC 24 V E3 EA1 OR1 C	3 Digital Inputs 1 Analog Input 1 Relay Output 1 Open Collector Output	A	S2/G2/T	1.005.250.00E
Micro PLC 12 V E3 EA1 OR1	3 Digital Inputs 1 Analog Input 1 Relay Output	B	S3/G2/T	1.005.154.00E
Micro PLC 24 V E3 EA1 OR1	3 Digital Inputs 1 Analog Input 1 Relay Output	B	S3/G2/T	1.005.254.00E
Micro PLC 12 V E3 EA1 OR1 C	3 Digital Inputs 1 Analog Input 1 Relay Output 1 Open Collector Output	C	S4/G2/T	1.005.153.00E
Micro PLC 24 V E3 EA1 OR1 C	3 Digital Inputs 1 Analog Input 1 Relay Output 1 Open Collector Output	C	S4/G2/T	1.005.253.00E

Datasheet  
Micro PLC

MRS Electronic, Inc.®  
2149 Winner Circle  
Dayton, OH 45404  
(937) 522-0800  
www.mrs-electronic.com



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**Accessories**

<b>Designation</b>	<b>Order Number</b>
Programming Tool MRS Realizer I	1.100.000.01
Socket	1.017.002.00
FASTON Terminal® 6.3 mm 1.5 – 2.5 mm <sup>2</sup>	103064
FASTON Terminal® 6.3 mm 1 mm <sup>2</sup>	102355
FASTON Terminal® 2.8 mm 0.5 – 1.0 mm <sup>2</sup>	105292
Bracket For Housing	1.017.080.00