



MRS CAN Relay Box





Technical Data

Construction	Plastic housing with connector
Connector	3 x 18-pol. Molex Mini Fit Junior
Housing Dimensions	89 x 95 x 35 mm
Weight	
Ambient Temperature	- 40 °C to 85 °C
Storage Temperature	- 40 °C to 85 °C
Protection Class	IP53
Operating Voltage U _B	9 – 30 V
	Protection against reverse polarity and electrical transients.
Current Consumption	Software-dependent (< 1 A if activ)
Protection	1 A

Processor

Manufacturer	Freescale
Processor Type	S9S08DZ60
Clock Frequency	25 MHz
Flash	60 K
Ram	4 K
EEPROM	2 K

Interfaces

CAN-bus

According to ISO 11898-5/3	Low/High speed
According to CAN 2.0A	11-bit standard address identifier
According to CAN 2.0B	29-bit extended address identifier
Baud Rate	10-kBit/s – 1000-kBit/s, Standard 125-kBit/s

Programming

Interface	CAN-bus
Software	MRS Developers Studio with built-in function library, similar programmable like FUP. Customized program components can be integrated into "C-code". Program memory is sufficient for about 300 simple components.

Possible Inputs and Outputs

Analog Inputs	13
Potentialfree Relays	12



Technical Data Inputs and Outputs

Characteristics Analog Inputs

Input Voltage	0 to 12 V
Resolution	12-bit 2.5 μ s

Characteristics Relay Outputs

Performance Per Relay	4 A permanent load
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Connection Assignment

Pin	Signal	Pin Description
X103.1	GND	Mass
X103.2	KL15	Ignition
X103.3	AIN02	Analog input
X103.4	AIN04	Analog input
X103.5	AIN06	Analog input
X103.6	AIN08	Analog input
X103.7	AIN10	Analog input
X103.8	AIN12	Analog input
X103.9	CAN_L	CAN-bus
X103.10	KL30	Supply voltage
X103.11	AIN01	Analog input
X103.12	AIN03	Analog input
X103.13	AIN05	Analog input
X103.14	AIN07	Analog input
X103.15	AIN09	Analog input
X103.16	AIN11	Analog input
X103.17	AIN13	Analog input
X103.18	CAN_H	CAN-bus
X102.1	REL01_NO	NO contact
X102.2	REL01_COM	COM contact
X102.3	REL02_COM	COM contact
X102.4	REL03_NO	NO contact
X102.5	REL03_COM	COM contact
X102.6	REL04_COM	COM contact
X102.7	REL05_NO	NO contact
X102.8	REL05_COM	COM contact
X102.9	REL06_COM	COM contact
X102.10	REL01_NC	NC contact

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X102.11	REL02_NO	NO contact
X102.12	REL02_NC	NC contact
X102.13	REL03_NC	NC contact
X102.14	REL04_NO	NO contact
X102.15	REL04_NC	NC contact
X102.16	REL05_NC	NC contact
X102.17	REL06_NO	NO contact
X102.18	REL06_NC	NC contact
X101.1	REL07_NO	NO contact
X101.2	REL07_COM	COM contact
X101.3	REL08_COM	COM contact
X101.4	REL09_NO	NO contact
X101.5	REL09_COM	COM contact
X101.6	REL10_COM	COM contact
X101.7	REL11_NO	NO contact
X101.8	REL11_COM	COM contact
X101.9	REL12_COM	COM contact
X101.10	REL07_NC	NC contact
X101.11	REL08_NO	NO contact
X101.12	REL08_NC	NC contact
X101.13	REL09_NC	NC contact
X101.14	REL10_NO	NO contact
X101.15	REL10_NC	NC contact
X101.16	REL11_NC	NC contact
X101.17	REL12_NO	NO contact
X101.18	REL12_NC	NC contact



Connection Assignment



>PA66 GF30<



1.047.310.00

MRS CAN Relay Box LS

9 - 30 V



X102



X101

www.mrs-electronic.de

Order Information

Designation	Execution	Order Number
MRS CAN Relay Box	High-speed	1.047.300.00E
MRS CAN Relay Box	Low-speed	1.047.310.00E

Accessories

Designation	Order Number
Programming Tool MRS Developers Studio	1.100.100.09
Cable Set CAN Relay Box	109639
Connector Package for CAN Relay Box	109637
PCAN-USB Interface	105358