



# Micro PLC CAN LIN





## Technical Data

Construction	KFZ-standard relay
Mounting	Socket
Connector	FASTON Terminal® 6.3 mm FASTON Terminal® 2.8 mm
Housing Dimensions	30 x 30 x 50 mm
Ambient Temperature	-40°C up to +85°C
Protection Class	IP53
Operating Voltage U <sub>B</sub>	12 V DC
Current Consumption	30 mA

## Processor

Manufacturer	Freescale
Processor Type	9S08DZ60
Clock Frequency	40 MHz
Flash	60 K
Ram	4 K
EEPROM	2 K

## Interfaces

### CAN-bus

According to ISO 11898-5	CAN High Speed
According to CAN 2.0A	11-bit standard address identifier
According to CAN 2.0B	29-bit extended address identifier
Baud Rate	20-kBit/s – 1000-kBit/s Default 125-kBit/s

### LIN-bus

Lin Specification 2.1
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## Technical Examination

E1 Approval Number	04 7069
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## Possible Inputs

Analog Input	4
Digital Input	4
Digital Output Tri-State	2



### Technical Data Input 15

#### Characteristics of Analog Inputs Standard

Input Voltage	0 V...11 V
Resolution	12-bit
Input Resistance	66.68 kΩ

### Technical Data Input X

#### Characteristics of Analog Inputs

Analog Input for NTC (pull up with internal 20kΩ )

### Technical Data Tri-State 87/87a

#### Characteristics of Digital Outputs

Output	12 V/0V/high-impedance
Analog Input	0V ... 32.8V
Digital Input	6 V on/5 V off
Resolution	12-bit
Power	400mA about 12V
Protection	Short-circuit-protection, over-temperature, over-voltage

#### Characteristics of PWM-Outputs

PWM-Frequency	Max. 30 kHz
Dutycycle	5...95%
Resolution	1 Promille
Current	400 mA bei 12V
Overcurrent Protection	Internaly

The output driver TLE 4207 is a fully protected DUAL-Half-Bridge-Driver designed especially for automotive and industrial motion control application. The actuator (DC motor) can be connected directly between the Half-Bridges. Operation modes are forward (CW), reverse (CCW), brake, and high impedance.

Functional Truth Table

DO_INH_OUT	DO_OUT1	DO_OUT2	Mode
0	X	X	Output is in tristate
1	0	0	Brake sink condition
1	0	1	Clockwise
1	1	0	Counter clockwise
1	1	1	Brake source condition

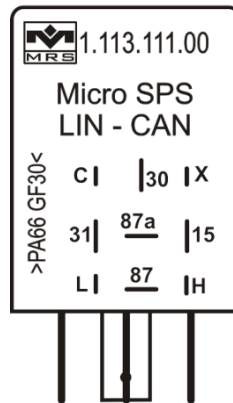
### Programming

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.



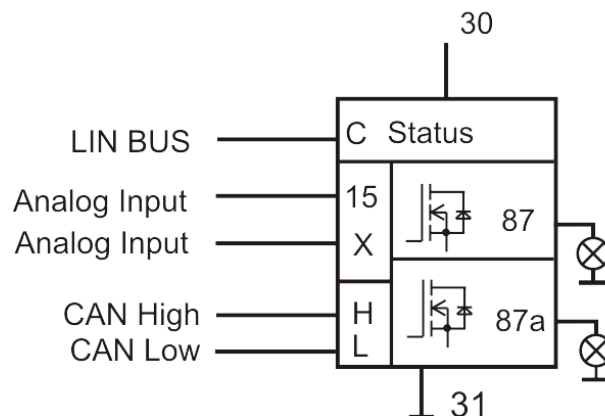
## Design

Typ A



## Connection Diagram

S1



## Connection Assignment

Pin	Signal	Pin Description
01	X	NTC input
02	KL 30 - Vcc	Operating voltage 12V
03	C	LIN Bus
04	KL15	Ignition
05	87a	OUT2
06	KL 31 - GND	GND
07	H1	CAN high 1
08	87	OUT1
09	L1	CAN low 1

Datasheet  
Micro PLC CAN LIN

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## Ordering Information

Designation	Execution	Connection diagram / Housing / Baseplate		Order Number
Micro PLC CANLIN	1xCAN-bus, LIN	A	S1/G3/T	1.113.111.03E

## Accessories

Designation	Order Number
Programming Tool MRS Developers Studio	1.100.100.09
Socket	1.017.002.00
Cable Set for Micro Gateway (Connection KL30 and CAN L2 must be separated)	109446
PCAN-USB Interface	105358
FASTON Terminal® 6.3 mm 1.5-2.5 mm <sup>2</sup>	103064
FASTON Terminal® 6.3 mm 1.0 mm <sup>2</sup>	102355
FASTON Terminal® 2.8 mm 0.5-1.0 mm <sup>2</sup>	105292