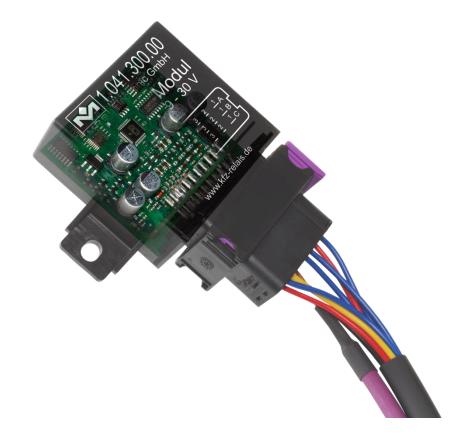
MRS Electronic, Inc.® 2149 Winner Circle Dayton, OH 45404 (937) 522-0800 www.mrs-electronic.com



CAN I/O & CAN PLC Waterproof PRO



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Technical Data				
Construction	Waterproof plastic housing with plug attachmen	t		
Connector	Sicma 211 PL249S0005			
Housing Dimensions	60 x 60 x 30 mm/with connector: 60 x 80 x 30 mm			
Weight				
Ambient Temperature	- 40°C to 85°C (at 85°C is not full load)			
Storage Temperature	- 40°C to 85°C			
Protection Class	IP 68			
Operating Voltage U _B	9 - 30V DC			
_	polarity and electrical transients. The module has two d high-side driver. The connectors are rated for 10 A, D A.			
Current Consumption	30 mA			
Quiescent Current	800 μΑ			
Protection	20 A			
Processor				
Manufacturer	Freescale			
Processor Type	S9S08DZ60			
Clock Frequency	40 MHz			
Flash	60 K			
Ram	4 K			
EEPROM	2 K			
Interfaces				
CAN-bus				
According to ISO 11898-2/3/5	Low/High Speed			
According to CAN 2.0B	29-bit extended address identifier			
According to CAN 2.0A	11-bit address identifier			
Baud rate	20-kBit/s – 1000-kBit/s Default 125-kBit/s			
RS232 & RS485				
Baud Rate	4.8-kBit/s – 115.2-kBit/s			
After assembly, the bus option RS23	2 or RS485 cannot be altered.			
Technical Examination				
e1-Approval Number	04 6710			
Possible Inputs and Outputs				
Digital Inputs	(ID & KL15) KL15 Wake-up input)	2		
Analog Inputs	(Pull-up & current in software-selectable) 6			
Analog Inputs or Digital Outputs	With high-side current measurement	2		
Analog inputs or PWM outputs	With integrated current control	4		
PWM outputs	With high-side current measurement	2		

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0 VU _B > 7 V < 4.5 V 22.6 kΩ
> 7 V < 4.5 V
< 4.5 V
22.6 kO
22.0 N22
max. 100 Hz
2.5 A/channel
Double switching current for max. 5 minutes
0 V11.3 V DC
12-bit
22.68 kΩ / KL 30 66.68 kΩ
10 kΩ software-selectable (DO_PUx)
0.5 kΩ software-selectable (DO_PDx)
Max. 100 Hz
Max. 1 kHz
0100%
Frequency-dependent
2.5 A
Double switching current for max. 5 minutes
CAN-bus
MRS Developers Studio with built-in functions library, similar to programming with FUP. Custom software blocks can be integrated into "C-code". Program memory is sufficient for about 300 basic logic components.

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Connection Assignment						
Pin	Signal	I/O	Pin description			
A1	KL30_2		Supply B1, C1, C2, C3 / analog input			
A2	RS232_TX / RS	485_A	RS232 / RS485 Bus			
A3	AI_5		Analog input			
A4	AI_4		Analog input			
A5	Al_2		Analog input			
A6	AI_1		Analog input			
A7	VREF_OUT		Vref output optional possible			
A8	KL30_1		Supply B8, C6, C7, C8 / analog input			
B1	PWM_3	Χ	PWM output / analog input /			
			integrated current control			
B2	RS232_RX / RS	485_B	RS232 / RS485 bus			
B3	DI_ID		Ident-Pin digital input			
B4	CAN_H		CAN-bus			
B5	DI_KL15		Digital input			
B6	AI_0		Analog input			
B7	GND		Mass KL 31			
B8	PWM_4	Χ	PWM output / analog input /			
			HSD-current measurement			
C1	PWM_2	Х	PWM output / analog input /			
			Integrated current control			
C2	PWM_1	Χ	PWM output / analog input /			
			Integrated current control			
C3	PWM_0	X	PWM output / analog input /			
			Integrated current control			
C4	Al_3		Analog input			
C5	CAN_L		CAN-bus			
C6	DO_OUT1	X	Digital output / analog input			
C7	DO_OUT0	Χ	Digital output / analog input			
C8	PWM_5	X	PWM output / analog input /			
			HSD-current measurement			

	8	7	6	5	4	3	2	1
Α	KL30_1	VREF_OUT	Al_1	Al_2	Al_4	AI_5	RS232_TX	KL30_2
В	PWM_4	GND	AI_0	DI_KL15	CAN_H	DI_ID	RS232_RX	PWM_3
С	PWM_5	DO_OUT0	DO_OUT1	CAN_L	AI_3	PWM_0	PWM_1	PWM_2

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Order Information				
Designation	Execution	Housing	Order Number	
CAN I/O & CAN PLC Waterproof PRO	5 V Vref, Wake-up, CAN-HS, RS232	G7	1.041.301.1000E	
CAN I/O & CAN PLC Waterproof PRO	5 V Vref, Wake-up, CAN-HS, RS485	G7	1.041.321.1000E	
Accessories				
Designation			Order Number	
Programming Tool MRS Developers Stud	1.100.100.09			
Connector Package for CAN I/O Waterproof PRO			110421	
Cable Set CAN I/O Waterproof PRO	110490			
Crimp Contacts 2.8 mm / 1 – 2.5 mm ²			109947	
Crimp Contacts 1.5 mm / 1.3 - 2 mm ²			109949	
Blanking Plugs FCI Filler Plug			110268	
PCAN-USB Interface			105358	