6-fold PROP-CAN

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

Technical Data

Construction	Plastic housing with connector
Connector	22-pol. Tyco Timer Junior
Housing Dimension	95 x 65 x 35 mm
Weight	
Ambient Temperature	- 40°C to 85°C (at 85°C no full-load operation possible)
Storage Temperature	
Protection Class	IP53
Operating Voltage U_B	9-30 V DC, polarity
Reference Voltage	5 V and 10 V, 150 mA loadable
Current Consumption	
Quiescent Current	<500 µA (standby), 30 mA (inactiv / outputs not loaded)
Protection	16 A

Processor

Manufacturer	Freescale
Processor Type	S9S08DZ60
Clock Frequency	20 MHz
Flash	60 K
RAM	4 K
EEPROM	2 K

Interfaces

CAN-bus	
According to ISO 11898-2	High-speed; TJA1050 (PHILIPS)
Or according to ISO 11898-3 / ISO 1898	Low-speed; TJA1050 (PHILIPS)
Baud Rate	20-kBit/s – 1000-kBit/s Default 125-kBit/s

Technical Examination

EMV: 2006/96/EG; DIN 40839	In progress
E1 Approval Number	In progress

Possible Inputs and Outputs

Analog Inputs (programmable) Alternative usable as digital inputs (bis 30 V)	8
Digital Output (programmable)	1
PWM - Outputs with 2.5 A (programmable) Max. 3 PWM-outputs usable at the same time	6
5 V/10 V Output Reference Voltage	1/1
Integrated Free Adjustment Potentiometer	6

Technical Data Inputs and Outputs

Characteristics of Digital Inputs		
Input Voltage	0 V…U_B	
Start-Up Level	Min. 4.5 V	Max. 7 V
Start-Off Level	Min. 4.5 V	Max. 7 V
Input Resistance	22 kΩ	
Input Frequency	Max. 100 Hz With optional mounting up to 10 kHz	

Characteristics Digital Output	
Load Current	2.5 A
Overload Capability	Double switching current for max. 5 minutes.

Characteristics Analog Inputs	
Input Voltage	0 V…11.3 V DC
Resolution	12-bit
Input Resistance	22.6 kΩ / KL 30 66 kΩ
Pull-Down Resistor	10 kΩ
Input Frequency	Max. 100 Hz

Characteristics PWM-Outputs	
PWM-Frequency	Max. 1-kHz
Duty Cycle	0…100%
Resolution	Frequency-dependent
Load Current	2.5 A
Overload Capability	Double switching current for max. 5 minutes

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.

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

Connection Assignment

Pin	Signal	Pin description
1	CAN-H	Can-bus
2	REF 10	Reference voltage
3	CAN-L	Can-bus
4	REF 5	Reference voltage
5	OUT 0	Output
6	KL30/1	Operating voltage
7	OUT 1	Output
8	AIN 0	Analog input
9	OUT 2	Output
10	AIN 1	Analog input
11	GND	Mass KL31
12	AIN 2	Analog input
13	OUT 3	Output
14	AIN 3	Analog input
15	OUT 4	Output
16	AIN 4	Analog input
17	OUT 5	Output
18	AIN 5	Analog input
19	KL15	Ignition
20	OUT 6	Output
21	AIN 6	Analog input
22	AIN 7	Analog input

Order Information

Designation	Order Number
6-Fold PROP CAN	1.109.300.00E
6-Fold PROP CAN 2xRPM	1.109.300.01E
6-Fold PROP CAN Rin 114k	1.109.300.00E

Accessories

Designation	Order Number
Programming Tool MRS Developers Studio	1.100.100.09
Connector Package for 6-Fold PROP CAN	109383
Cable Set 6-Fold PROP CAN	109291
PCAN-USB Interface	105358