



FlexGen-M PWM remote

www.star-cooperation.com

ADVANTAGES

- Generation of power PWM signals up to 10A with frequencies from 1 Hz to 10 kHz
- Fully integrated control algorithm for E actuators with analog position sensors (optionally SENT according to SAE J2716)
- Complete control via CAN bus for connection to the test bench
- Current measurement at the output stage
- Simple installation on top-hat rail and small size based on the use of plug-in terminals

PWM GENERATOR FOR SWITCHING CABINET INSTALLATION

The FlexGen-M PWM remote module was specifically designed for use in the switching cabinet. This module is ideally suited for the control of flaps, actuators, valves, smaller DC engines, or other actuators. One particular feature is the H bridge power output, which makes it possible, for example, to reverse the polarity of output signals for engine control units and thereby change the direction of rotation.

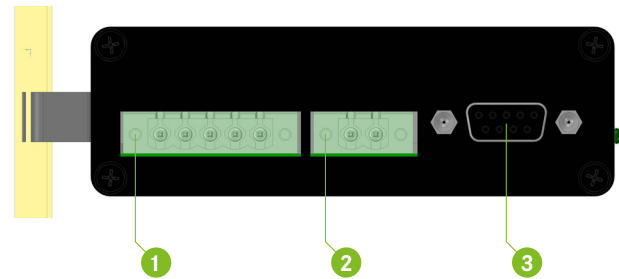
All settings can be adjusted via a CAN high-speed interface, where all set values are cyclically fed back via such interface.

To control actuators which require a control algorithm, the device has a 0-5 V analog input. For future updates, a SENT interface has also been integrated, which can be switched using the CAN bus. During a test drive, the final positions of the sensor system of the respective actuating element can be determined.

Thanks to current measurement at the output stage, the behavior of the actuator can be monitored by the test bench, and any error status can be detected.

FlexGen-M PWM remote

PIN ASSIGNMENT



TECHNICAL DATA

PWM Generator for Top-Hat Rail Installation	
Voltage supply	9 V – 28 VDC (protected against polarity inversion)
Output current	Max. 10 A
Duty cycle/resolution	0 – 100 % / 0,1%
Frequency range/resolution	1 Hz – 10 kHz / 1 Hz
Output stage	H full bridge, short-circuit proof
Internal transient impedance	< 50 mΩ
Edge steepness	Typ. 10 V/μs
Current measurement/resolution	0 A – 10 A / 0,1 A
Sensor interface	5 V supply voltage 0 V – 5 V analog input/SENT
Control	Learning function and P-I-D control Configurable
Communication interface	CAN-Bus (ISO 11898-2 A and B)
Dimensions (L x W x H)	124 x 105 x 34 mm
Ambient temperature/safety class	0°C bis 80°C / IP 21

SCHNITTSTELLE 1

Pin	Signal Name	Description
1	OUT1	PWM outlet 1
2	OUT2	PWM outlet 2
3	GND	Sensor supply minus
4	Sensor_IN	Sensor analog input
5	+5V	Sensor supply plus

SCHNITTSTELLE 2

Pin	Signal Name	Description
1	V+	Supply voltage Plus
2	V-	Supply voltage Minus

SCHNITTSTELLE 3

Pin	Signal Name	Description
2	CANL	CAN-Low
3	GND	Masse
4	LIN	LIN
7	CANH	CAN-High