



FlexGen-S PWM

www.star-cooperation.com

BENEFITS

- Generation of PWM signals with frequencies of 1 Hz to 1 kHz
- Open collector output for voltages up to 40 V
- Short-circuit proof and overvoltage protected output
- Quick recall of two pre-configurable pulse duty factors
- Robust device with autonomous voltage supply

OPEN COLLECTOR FLEXGEN-S PWM

The FlexGen-S PWM is used for generating PWM signals. The user can set up the frequency and the pulse duty factor via a rotary encoder at the device. In this, the rotary encoders come with a rough and fine switch that enables the alteration of the set-up accuracy between 5 % and 0.1 %. Two pulse duty factors can be pre-configured fixed and accessed directly via a rotary switch.

The generation of the PWM signal is executed via an open collector output. In case a pull-up resistance is necessary for the signal generation, this can be plugged in externally in the shape of a jumper (included in the scope of delivery).

FlexGen-S PWM

FIELDS OF APPLICATION

- PWM signals for test benches and test vehicles
- Revolution specifications at control inputs of vehicle exhausters and pumps

CHARACTERISTICS

- Generation of PWM signals with frequencies between 50 Hz to 1 kHz
- Set-up of pulse duty factor of 0 % to 100 %
- Quick recall of two pre-configurable pulse duty factors
- PWM signals via an open collector output with currents of up to 500 mA and voltages of up to 40 V
- Robust aluminum casing
- PWM output with current limiting and overvoltage protection
- Display of frequency and pulse duty factor on an LC display with background lighting
- Easy connection via banana sockets
- Rotary encoder with rough and fine switch for adjusting pulse duty factor as well as frequency
- Externally pluggable pull-up resistance (see image 1)

ORDER NUMBER

- 70007332

SCOPE OF DELIVERY

- FlexGen-S PWM (device)
- Jumper pull-up 1k Ω
- Manual

ACCESSORIES (OPTIONAL)

Connector cable and customer-specific adapter cables on demand

VARIATIONS

There are variations with power PWM output and/or interfaces to the external control (analog, USB, CAN) available in the multifunctional PWM generator product family (FlexGen-M PWM).

TECHNICAL DATA

Name	FlexGen-S PWM
Voltage supply	+6 V(DC) to +28 V(DC)
Supply current	< 50 mA
Operating temperature	-20°C to 70°C
Storage temperature	-30°C to 80°C
Dimensions (L x W x H)	138 x 90 x 40 mm
Casing/Protection class	Aluminum/ IP41
Output type	Power-MOSFET
Maximum current PWM signal	500 mA
PWM signal lift	1-40 V (6-28 V with jumper)
Forward resistance ($R_{DS,ON}$)	max. 500 m Ω
Frequency range PWM	50 Hz to 1 kHz
Pulse duty factor PWM	0 % to 100 % *
Resolution pulse duty factor	0,1 %
LCD display	2 x 16 characters with background lighting

* Pulse width tolerance typ. 500 ns (1 μ s with 1k Ω pull-up)

INTERFACES

Name	Function
PWM	Open collector output PWM
KL30	Voltage supply/vehicle battery plus
KL31	Mass/vehicle battery minus