

PWM engine speed control

Brief description

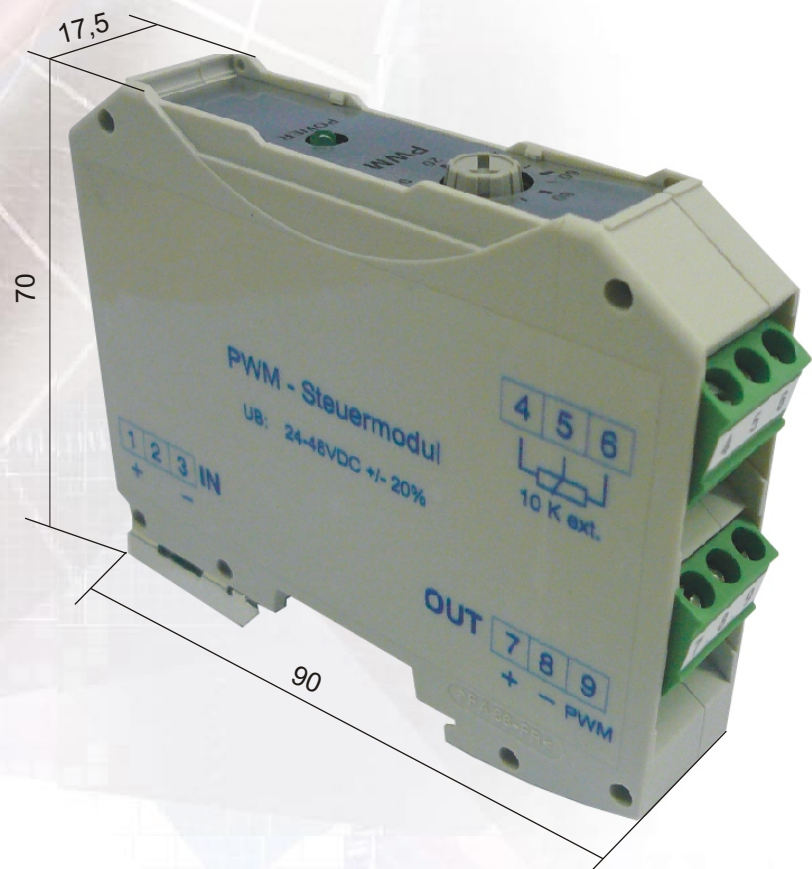
- autarkic PWM control for all fans and e-motors featuring PWM control input
- engine speed adjusting by internal or external potentiometer
- PWM signal invertible
- simple top hat rail mounting
- direct connection of fan or e-motor
- parallel connection of more than one fan/e-motor not featured

Technical Data

- operating voltage 24 - 48 VDC \pm 20%
- output signal: positive or negative PWM (depending on specification)
- PWM frequency 2 kHz (25 kHz for article 118438)
- PWM signal positive = 100 % PWM for engine speed n_{\max}
- PWM signal negative = 100 % PWM for engine speed n_{\min}
- PWM output sink current max. 30 mA
- permissible ambient temperature 0°C ... +60°C (0°F ... 140°F)
- nominal current of directly connected fan/e-motor max. 5A
- top hat rail mounting to 35 mm mounting rail according to EN 60 715
- protection class IP 20

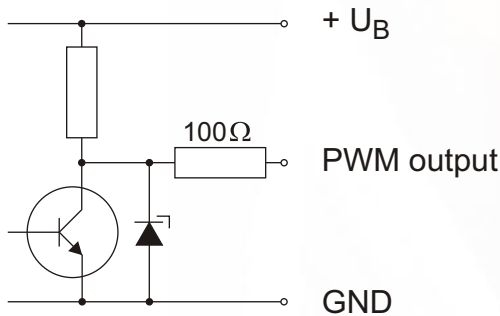
Terminal assignment

- 1 operating voltage $+U_B$
- 2 not used
- 3 ground (GND)
- 4 ext. potentiometer
- 5 ext. potentiometer (slider)
- 6 ext. potentiometer
- 7 output $+U_B$
- 8 ground (GND)
- 9 output PWM



Specifications of PWM interfaces

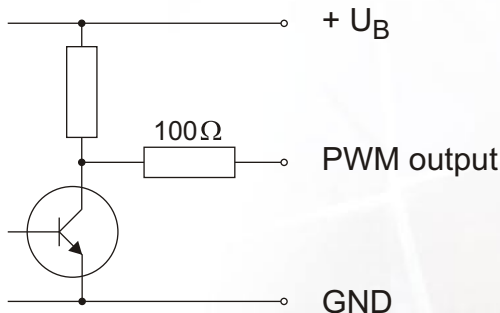
version 1: pull up resistor and signal limitation to 12 V



type: **SK0.0003.E.2.3A** positive controlled
order no.: 111505

type: **SK0.0008.E.2.3A** negative controlled
order no.: 113338

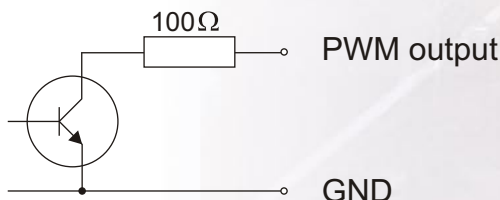
version 2: pull up resistor on U_B



type: **SK0.0006.E.2.3A** positive controlled
order no.: 111506

type: **SK0.0009.E.2.3A** negative controlled
order no.: 113339

version 3: open collector



type: **SK0.0007.E.2.3A** positive controlled
order no.: 111507

type: **SK0.0010.E.2.3A** negative controlled
order no.: 113340

type: **SK0.0049.E.2.3A** 25 kHz output
order no.: 118438