

## Signal Converter / - Amplifier 4 channels into 24V (HTL) **SU9**

Characteristics:

- Signal converter for magnetic pickup (MPU)
- Transmission frequency 200kHz
- Output 24VDC/1x 100mA
- Each channel is indicated by 1 LED
- Fast switching times from 0,5µs/1µs
- Supply 24VDC
- Mountable on 35mm cap rail TS35
- Clear terminal labeling
- Narrow design
- Shape 17,5mm, super low
- PB - Power-Bus - compatible
- High reliability, 5 years warranty



Description:

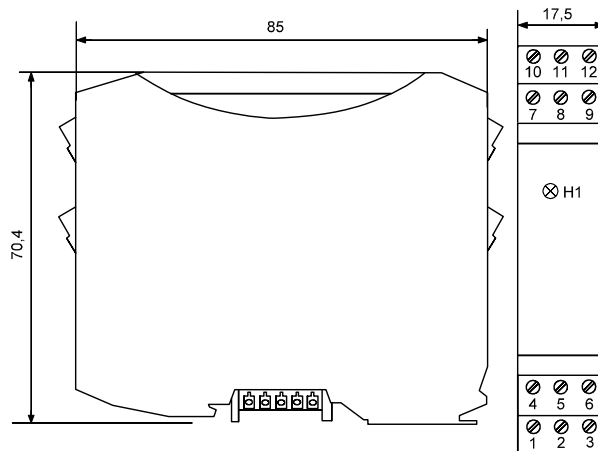
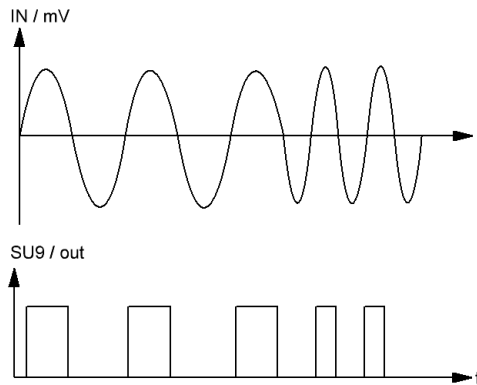
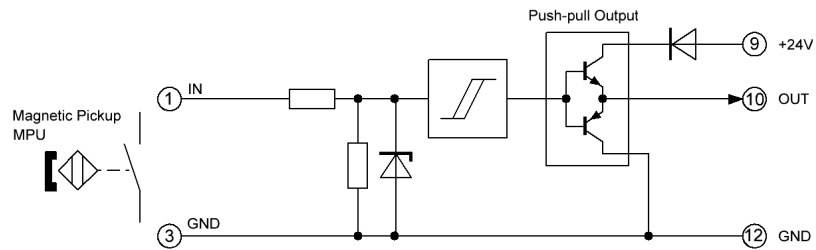
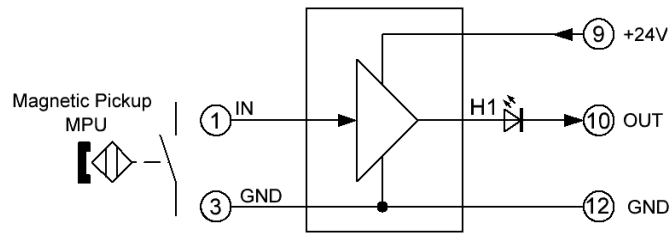
The devices in the SU9 signal converter series are used to convert the signal from an inductive signal transmitter, magnetic pickup (MPU), to a 24V square wave signal up to 200kHz. Passive signal transducers from gear wheels or diesel engines can thus generate a signal that can be used for further processing, e.g., with a PLC.

The push-pull output of the SU9 outputs a 24V signal when activated and is actively switched to GND when not activated.

An LED in the output indicates the switching state. An auxiliary power supply of 24Vdc is required. The devices are housed in a 17.5mm wide plastic enclosure, which is suitable for mounting on a DIN rail.

Application:

Recording of speeds on diesel generators, for example



## Technical data

### Auxiliary power

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Supply voltage : 19, 2...30VDC  
Current consumption : 100mA + load

### Inputs:

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	Working range	Low:	High:	Rin:
SU9	0...60V AC/DC	< 0,1V	> 0,3V	69kOhm
Over Load	max. 80V AC/DC			

### Outputs:

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Voltage output :  $U_{cc} - 1,5V$   
Current output : max. 1 x 100mA  
Transmission-Frequency: 200 kHz  
Switch time : ON 1 $\mu$ s, OFF 0, 5 $\mu$ s  
Level : push-pull (HTL)

### General data:

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Operating temperature : 0...50°C  
Storage temperature : -25...+85°C, condensation before putting into operation is not allowed  
MTBF : 280 years mean time between failures – according to EN 61709 (SN 29500).  
Requirements: Stationary operation in clean rooms, average ambient temperature 40 ° C, no aeration, continuous operation  
CE conformity : EN 61326-1, EN 61000-4-2/3\*/4/5/6\*, EN 61000-6-4  
\* during measurements are small deviations possible

### Body:

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Dimension : Cf. drawing, 17,5mm adjoin body, 17,5x70,4x90,5mm (with terminals)  
Material : PA / V0  
Protection category : IP20  
Connection : M3-screw-type terminal 0, 14 – 2,5mm<sup>2</sup>, flexible or inflexible  
Fixing : Snap-on mounting for norm rail TS35  
Weight : 64g  
Mounting position : As you like

**Note on safety:**

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Disconnect the power supply before attempting to open the unit.

During the operation of this module it is possible that parts of the module, even there is extra-low voltage, (for example shunt measurement) are under dangerous voltage! Therefore a non-observance of this caution may cause damage of property or physical injury.

Only trained qualified personnel should install or operate the unit. Before installation the qualified personnel should read the documentation and should familiarize themselves with the unit.

If there is visible damage to the body of the unit it should be immediately replaced and not put into operation.



Please ensure that there is a sufficient prevention against electrostatic discharge during installation of the unit.

**Installation Information:**

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Pay attention and make sure the unit is far away from mounted sources that may disturb the device such as magnetic coils, transformers, frequency converters etc.

**Wiring advise:**

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Use only shielded cables. The shield is to be connected extensively to ground. Do not mix power- and signal-wires/cables in the same cable tray.

**Limited guarantee:**

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The LEG Industrie-Elektronik GmbH warranted that the product does not have any material or processing defects in a period of 5 years after date of delivery.

It is up to the choice of LEG to repair or to exchange an inoperative unit.

Subsequent damages or any claim for indemnification above the functionality of the unit are excluded.

This limited warranty is only valid if ...

1. the product was installed and put into operation according to the LEG operation documentation;
2. the technical configuration of the power supply was abided;
3. the product was not used for unintended purposes;
4. there were no unauthorized modifications or manipulations, misuse or repairs without previous agreement from LEG .

Our Terms of Trade are based on the “General Conditions for the supply of products and services of the Electrical and Electronics Industry” including the “Complementary Clause: Extended Reservation of Property” of the ZVEI e.V. (German Association of Electrical Manufacturers).

**Miscellaneous:**

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We expressly reserve the right, without previous notice, to correct errors contained in any data of this information brochure, and to make alterations to the program and technical modifications.