

Signal Converter / - Amplifier 4 channels PNP to NPN **SU8**

Characteristics:

- Four-channel level converter
- Transmission frequency 200kHz
- Output ground switching NPN
- Each channel is indicated by 1 LED
- Fast switching times from 0,5µs/1µs
- Supply 5...30VDC
- 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 SU8 signal converter series are used for level conversion and signal conversion. Four channels are available. Positive switching (PNP) signals 24V or TTL 5V with a frequency of up to 200kHz are transmitted as ground switching outputs (NPN). If the input is assigned a positive signal, the corresponding output switches to ground. Each output provides an open-collector transistor, which means that the corresponding receiver input must be equipped with a pull-up resistor. Voltages from 5V to 30V are permissible and independent of the supply voltage of the SU8, as these are decoupled with diodes for pull-up.

An LED in each output indicates the switching status. An auxiliary power supply of 5 to 30 Vdc is required. The devices are housed in a 17.5 mm wide plastic enclosure that is suitable for mounting on a DIN rail.

Application:

Signal conversion 5 VDC / 24 VDC to NPN transistor
Conversion of high-impedance signals, signal amplification

Order-No.:

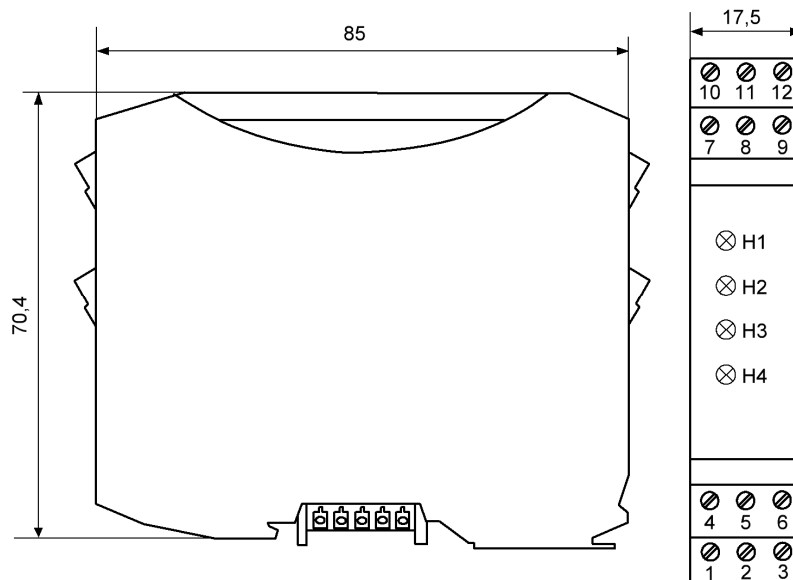
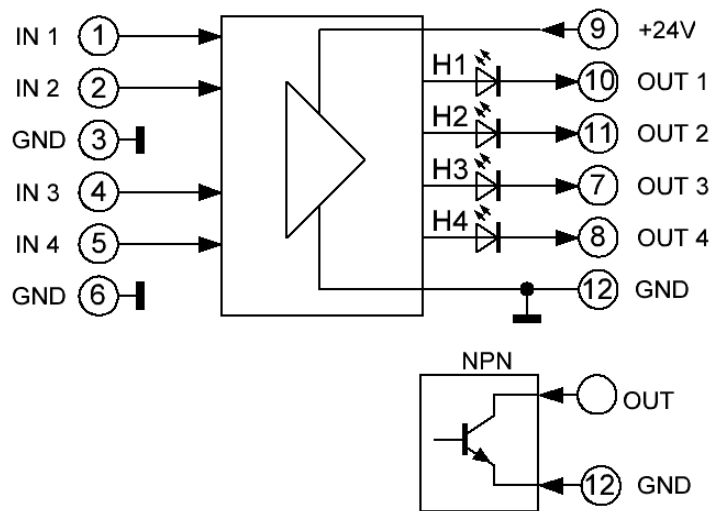
Input:

	SU8-	
24VDC		1
5VDC		2

Order example:

Signal converter SU8:
Input = 24VDC

Order No. SU8-1



Technical data

Auxiliary power

Supply voltage	:	5...30VDC (Ub)
Current consumption	:	100mA + load

Inputs:

Switching level	:	depending on power supply		
SU8-1 (24Vdc)	:	Low:	High:	Rin:
	:	Ub=24Vdc	< 10V	> 12V
	:	Ub=12Vdc	< 5V	> 6V
SU8-2 (5Vdc)	:	Ub=15Vdc	< 6V	> 7,5V
	:	Ub=5Vdc	< 1,5V	> 2,5V
	:	Ub=24Vdc	< 2,06V	> 2,1V
	:	Ub=15Vdc	< 1,26V	> 1,3V
	:	Ub=12Vdc	< 1,03	> 1,05
Overload	:	Ub=5Vdc	< 0,45V	> 0,5V
	:	max. 40V		

Outputs:

Transistor NPN	:	max. 30V (open collector)
Level low	:	min. 1V
Current output	:	max. 4x 100mA
Transmission-Frequency:	:	200 kHz
Switch time	:	ON 1µs, OFF 0, 5µs

General data:

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:

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 ² , flexible or inflexible
Fixing	:	Snap-on mounting for norm rail TS35
Weight	:	64g
Mounting position	:	As you like

Note on safety:



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:

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:

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:

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:

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.