

Signal Converter 3 channels RS422 into 24V (HTL) / 5V (TTL)

SU3

Characteristics:

- Level converter
- Transmission frequency 1MHz
- Output 3x 5/24VDC/ 50mA / push-pull
- Potential isolation input/output
- Each channel is indicated by 1 LED
- Bus maybe enabled or disabled by jumper
- Fast switching times
- 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 units of the signal converter series SU3 are three channel level converters for converting RS422 signals into 5V (TTL) or 24V (HTL) with push-pull output each. The units are potential isolated between inputs and outputs. The switch conditions are indicated by LED's in each output.

Application:

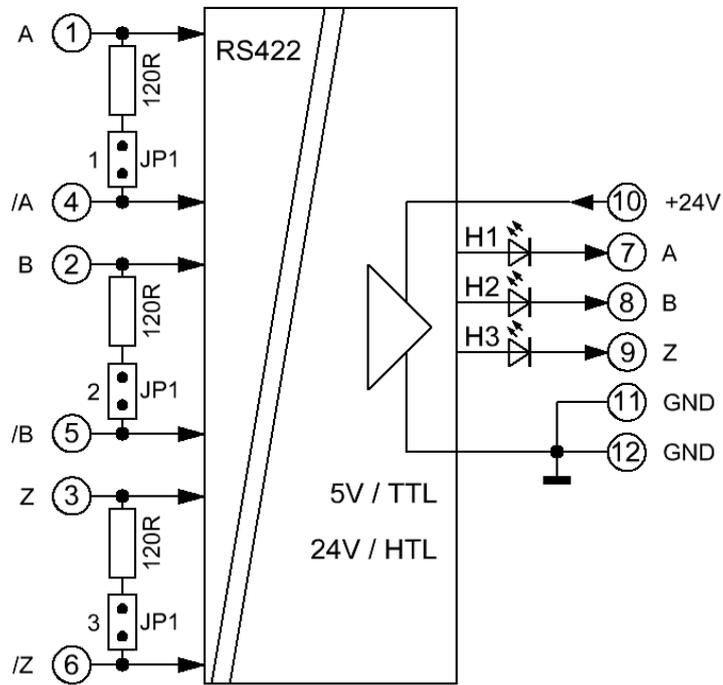
Signal conversion 5VDC (TTL) / 24 VDC (HTL) into RS422

Order-No.:

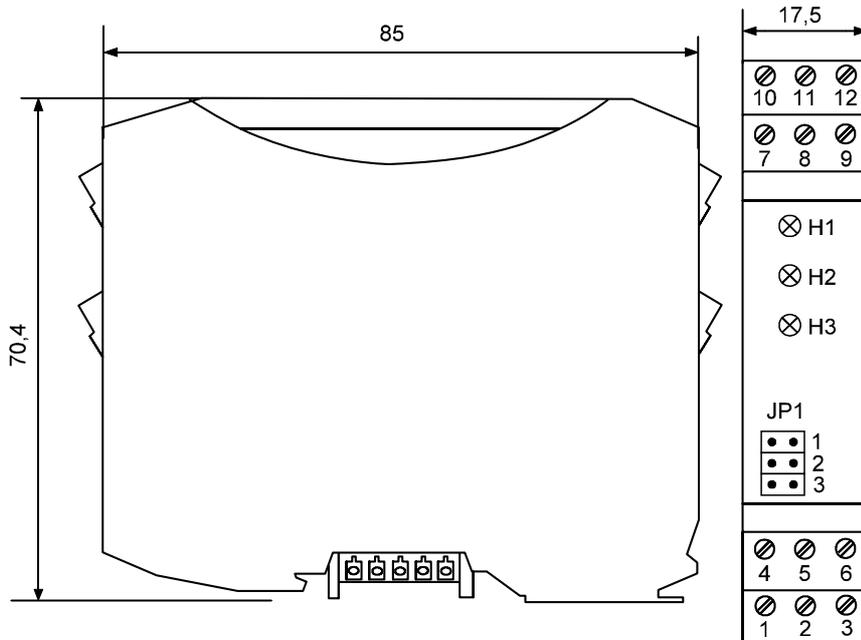
Output:

SU3-1
SU3-2

24VDC (HTL)
5VDC (TTL)



Advise: Remove jumper JP1 when you do not use the channels.
Then the inputs get closed internal.



Technical data

Auxiliary power

Supply voltage : 19, 2...30VDC
Current consumption : < 1,5VA + load

Inputs:

RS422 : 3 channels
Input impedance : 120Ω, switch off each channel by removing jumper:
Channel A: JP1-1
Channel B: JP1-2
Channel Z: JP1-3

Outputs:

Voltage output : SU3-1: 24VDC (HTL / push-pull)
SU3-2: 5VDC (TTL / push-pull)
Current : Max. 3x 50mA
Transmission-Frequency : 1MHz
Level : SU3-1: HTL
SU3-2: TTL
Short-circuit strength : Max. <3s

General data:

Operating temperature : 0...50°C
Storage temperature : -25...+85°C, condensation before putting into operation is not allowed
Electrical isolation : Input – output
MTBF : 125 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 : See drawing, 17,5mm adjoin body, 17,5x70,4x90,5mm (with terminals)
Material : PA / V0
Protection category : IP20
Connection : M3-screw terminal 0, 14 – 2,5mm², 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.