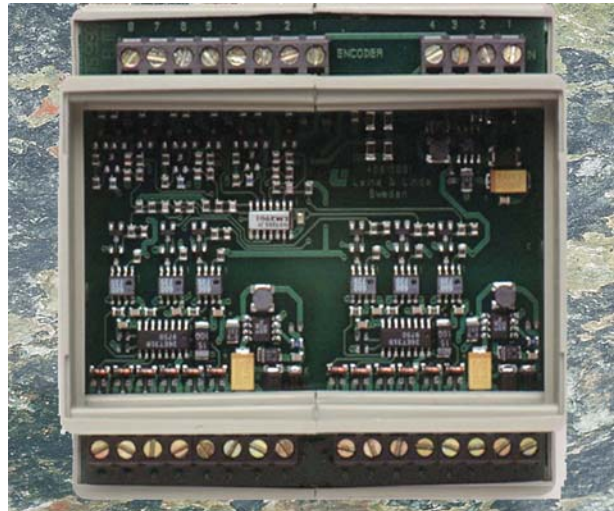


Incremental interface converter



Incremental interface converter

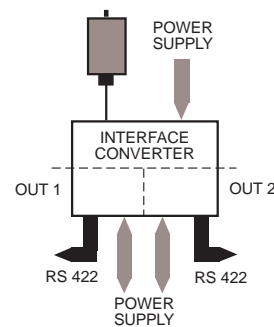
- ▶ Converts incremental encoder HTL-signals to two separate RS-422 signal outputs
- ▶ Inputs/outputs galvanically separated
- ▶ Universal foot for mounting on DIN Rail
- ▶ Supply voltage 9...30 Vdc



ELECTRICAL SPECIFICATION

Input section	IN and ENCODER
Supply voltage +EV	9-30V Polarity protected
Current consumption without encoder	40mA @ 24V Max 60mA
Encoder signal	Incremental, HTL level
Mode 1	6 channels 1, $\bar{1}$, 2, $\bar{2}$, 0, $\bar{0}$
Mode 2 IN 3-4 connected	3 channels 1, 2, 0
Output sections	OUT 1 and 2 galvanically separated from each other and inputs.
Output level	RS-422
Load max	± 20 mA
Max cable length	1km (TIA-EIA-422-B)
U_{high} (at 10mA load)	> 3,0V
U_{low} (at 10mA load)	< 0,4V
Frequency range	0...200kHz
Isolation voltage	1 kV (Between input and output)
Propagation delay t_{pH} , t_{pL}	Max 1 μ s

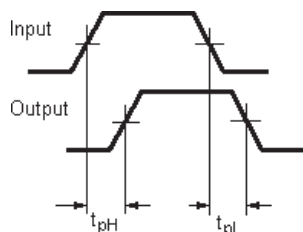
INTERFACE CONVERTER



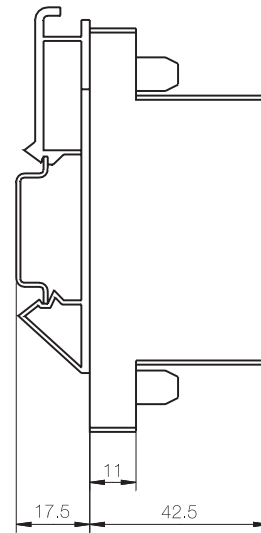
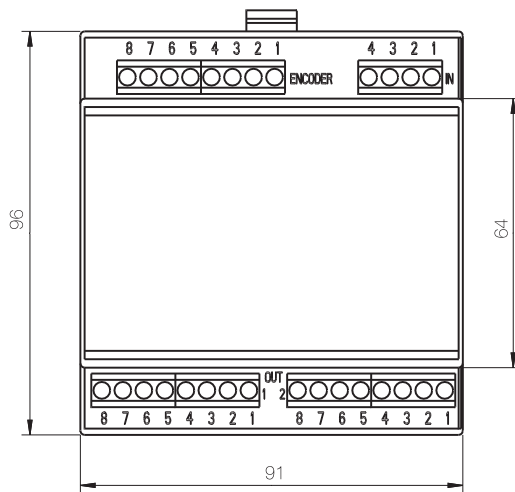
CONNECTION

Section	Function	Terminal
IN	+ E Volt, input	1
	0 Volt, input	2
	Jumper for single ended	3
	Jumper for single ended	4
ENCODER	+ E Volt to encoder	1
	0 Volt to encoder	2
	A	3
	\bar{A}	4
	B	5
	\bar{B}	6
	N	7
	\bar{N}	8
OUT 1 and 2	+ E Volt, output	1
	0 Volt, output	2
	A	3
	\bar{A}	4
	B	5
	\bar{B}	6
	N	7
	\bar{N}	8

PROPAGATION DELAY



Incremental interface converter



Measure 17.5 mm for DIN rail 7.5
DIN rail 15= 25 mm
G rail= 22 mm

INSTRUCTIONS - How to connect the incremental interface converter 01300301

DESCRIPTION

The Incremental Interface Converter converts the HTL input signals from the encoder to two separate RS-422 outputs that are galvanically separated from the inputs and each other.

CONNECTIONS

IN (Supply)

At terminal 1 and 2 the supply voltage (9...30 VDC) for both the encoder and the input section of the Pulse amplifier is connected.

Terminal 3 and 4 is only used if an encoder with "single ended" outputs, is to be connected. In this case terminal 3 and 4 is connected to each other.

INPUTS

At the terminals with the text ENCODER the cable from Leine & Linde encoder are connected.

NOTE: The Incremental Interface Converter is designed especially for the Leine & Linde 861- and 850- families but all Leine & Linde encoders with 9...30 Vdc supply voltage and HTL outputs can be used.

1. VCC (supply voltage to the encoder)
2. GND
3. Input A
4. Input A inverted (*)

5. Input B
6. Input B inverted (*)
7. Input N
8. Input inverted (*)

Terminal 1 and 2 (VCC and GND) is the same as terminal 1 and 2 at the IN (Supply) terminals with a voltage drop of 0.7 V.
(*) The inverted inputs are not to be connected or connected to GND if terminal 3 and 4 at the IN (Supply) terminals are connected to each other.

OUTPUTS

There are two output sections called OUT 1 and 2.

1. VCC (supply voltage 9...30 Vdc to the output section)
2. GND
3. Output A
4. Output A inverted
5. Output B
6. Output B inverted
7. Output N
8. Output N inverted

Terminal 1 and 2 at both outputs is the supply voltage (9...30 Vdc) for the output sections. The output signals are according to TIA/EIA standard RS-422 and galvanically separated from the input section and the other output section.

MECHANICAL SPECIFICATION

Housing	Plastic
Mounting	DIN rail 7,5mm DIN rail 15mm G-rail
Weight	150g
Temperature	
Operating	-25°C ... +70°C
Storage	-40°C ... +85°C

ORDERING INFORMATION

Available models

01300301

Incremental interface converter

LEINE LINDE ISO 9001 / ISO 14001 certified

Olivehällsvägen 8, SE-64542 Strängnäs, Sweden.
Phone: +46 (0)152 26500. Fax: +46 (0)152 26505. E-mail: info@leinelinde.se

07-09-13 PS. Specifications can be changed without prior notice.

www.leinelinde.com