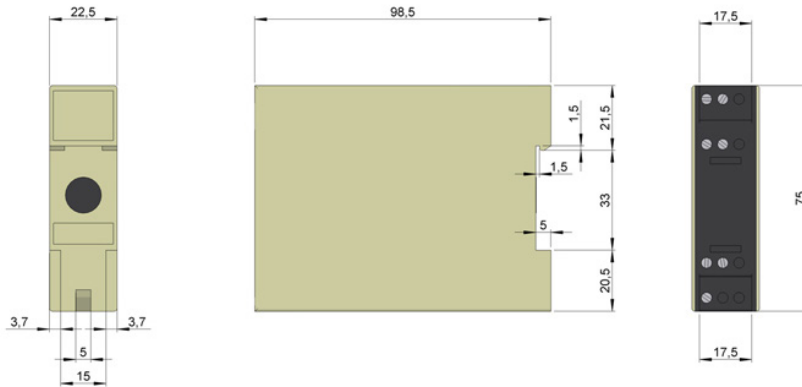




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DIFFERENTIAL SIGNALS CONVERTOR FOR ENCODERS

- Differential signals convertor A/B
- A/-A and B/-B differential Push-Pull Input
- A/B Push-Pull Output
- Low consumption 70mA (without load)
- Power supply 10..24v
- Protection class IP20
- Rapid assembly on a DIN rail



MECHANICAL SPECIFICATIONS

Input channels	Differential A/B
Input signal type	Differential Push-Pull
Input signal level	10..24v
Frequency	200 KHz
Passive filter	250 KHz
Phase displacement of input signal	90 ° ±25%
Output channels	A/B/Direction
Output signal type	Push-Pull
Output signal level	10..24v
Output load intensity	30 mA per channel
Power supply	10..24v
Intern consumption	70 mA without load
Encoder power supply output	10..24v
Connection type	Pitch of the connection strip screw 5,08
Max. conductor sections	Max 2,5mm ²
Protection against dust and splashes	IP20
Relative humidity	85%
Operating temperature range	-10°C to +70°C
Assembly	DIN Rail in 50022
Weight	100 g
Housing	Grey polycarbonate UL94



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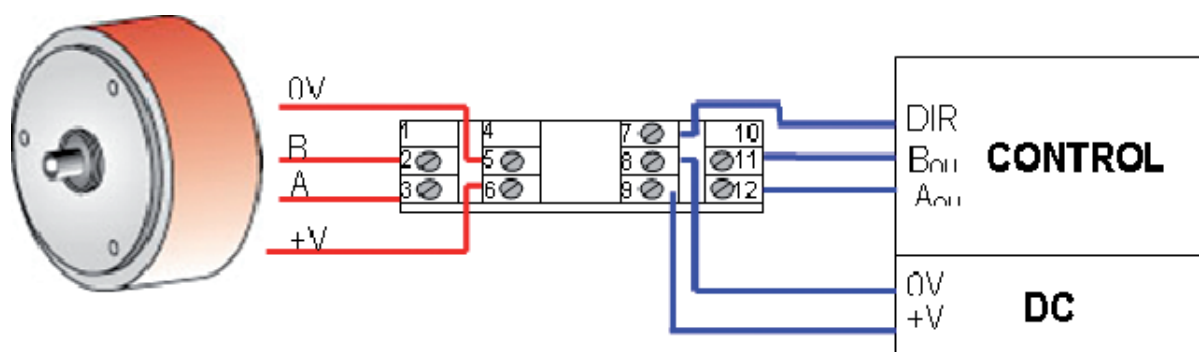
DIFFERENTIAL SIGNALS CONVERTOR FOR ENCODERS

MODULE DESCRIPTION

This converter takes advantage of the differential signals referring to each channel (A/An yB/Bn) of the encoder for generating two outputs, A and B. Each one of these outputs will be the result of the A-An and B-Bn operation respectively, modifying the negative levels to 0 volts. Furthermore, the inputs have a 259 KHz filter for high frequencies in order to absorb noise. The output driver for the two signals (Aout, Bout)

is a 10-24V Push-Pull. This system is very useful when you want to have quality signals (A,B) in environments with high electromagnetic interference and wiring distances, but at the same time you want to save on control inputs.

CONNECTION DIAGRAM



Input channels An Encoder	1	NC	7
Input channel B encoder	2	0 V	8
Input channel A encoder	3	Power supply Encoder +V (10/24 Vdc)	9
Input channels An Encoder	4	NC	10
0 V Encoder	5	Output signal Bout	11
Power supply Encoder +V	6	Output signal Aout	12