

Differential to Single Ended Signal Converter 1000KHz

Function of differential to single ended signal converter: This module receives six differential signals viz +A,-A,+B,-B,+Z,-Z signals (3-10 or 10-24 VDC) and converts differential signal in to single ended signals with pulse amplitude equal to user supplied voltage anything between 30-5 VDC. Outputs are optically isolated from input encoder signals.

Features

- DIN rail mountable
- Three (A,B,Z) outputs module
- LED indication for output signals
- Reduces high frequency noise and gives clear square wave output.
- Sink and Source type outputs

Product Picture



3 Outputs

Technical specifications:

Input signal voltage:3-10 VDC OR 10-24VDC

Max. input current:5 mA

Max. output voltage:5-30 VDC

Min.output voltage:5.0 VDC

Max. load per output point:200 mA

Continuous power dissipation at (or below) 25°C free-air temperature: 200mW

Input to output electrical isolation: 3.55 KV

Max. Voltage drop in output voltage: 0.5 V @ 5mA load

Resistance, input to output: 100 GΩ

Max pulse frequency: 1000 KHz

Applications:

- a) For connecting simulated encoder signals from inverters/Servo drives to PLC inputs.
- b) To convert RS422 signal in to single ended signal
- c) To shift level of the square wave input to desired level
- d) Conversion of sink type encoder to source type outputs

Notes:-

- Converters with input signal other than 24VDC can be supplied on demand.
- Max. frequency :1000 KHz.

Application examples:-

Sr No	Encoder PPR	Motor RPM	Pulse Freq	Suitable Converter
1	1000	3000	50.00 KHz	1000 KHz
2	2500	4000	166.67 KHz	1000 KHz
3	3000	3000	150.00 KHz	1000 KHz
4	5000	4000	266.67 KHz	1000 KHz

Standards /Approvals

- CE Certified
- PCB :IEC61373
- Terminals:UL/CE
- Optoisolator:UL
- Profile & end plates : CE

NOTE:-Due to continuous product development the product supplied to you may look different than the product image in the pdf file.