

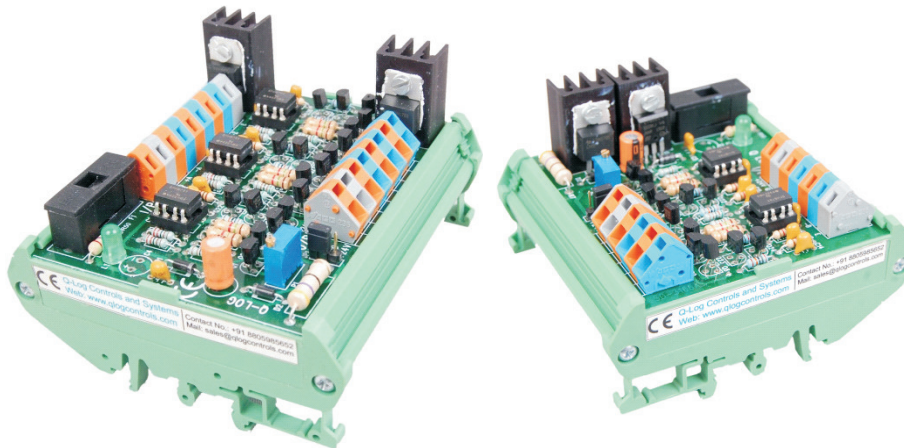
TTL to HTL /HTL to TTL Converter

TTL to HTL /HTL to TTL converter 1000KHz: This is TTL to HTL or HTL to TTL converter or differential to single ended converter or Single ended to differential converter. This module receives three differential signals viz +A,-A,+B,-B,+Z,-Z signals (3-10 VDC or 10-24 VDC PP) and converts differential signal in to single ended signals A,B,Z. Pulse amplitude of output pulses is adjustable from 4.0 VDC to 24 VDC using a preset. In reverse way the module receives three signals A , B ,Z w.r.t GND and converts the single ended signal in to differential signal (+A,-A) (+B, -B) and (+Z,-Z) ,the differential voltage is adjustable from 4.0 VDC to 24 VDC. Three point converter is for 3 signals and 2 point converter is for 2 signals.

Features

- Output of type Source / Sink / Push Pull in single module.
- Input in the range 3-10 VDC and 12-30 VDC (Peak to peak voltage)
- Minimum Driving current: 1.6 mA
- Supply voltage: 24-30 VDC @ 300mA
- Output pulse train voltage adjustable from 4 – 28 VDC by preset
- Maximum input frequency 2000 KHz
- Reduces high frequency noise and gives clear square wave

Product Picture



3 point DIN rail mountable

2 Point DIN rail mountable

Technical specifications:

Input signal voltage: 3-10 VDC OR 10-30 VDC

Max. input current: 5 mA

Min. input current : 1.6 mA

Max. output voltage: 24 VDC

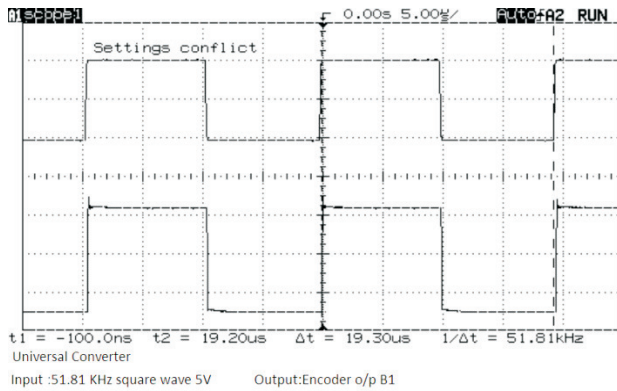
Min. output voltage: 4.0 VDC

Max. load per output point: 100 mA

Max pulse frequency: 1000 KHz (2 MHz)

Sr.No	I/P Vpp	No of points	Order Code	Price
1	3-10 v	2	QLOG-HTL-5-2P	2500
2	10-24 v	2	QLOG-HTL-24-2P	2500
3	3-10 v	3	QLOG-HTL-5-3P	3000
4	10-24 v	3	QLOG-HTL-24-3P	3000

Typical Switching Characteristic of Universal Converter



Applications:

- For connecting simulated encoder signals from inverters/Servo drives to PLC inputs.
- To convert high frequency differential signal in to single ended signals and vice versa.
- To shift level of the square wave input to desired level

Sr No	Encoder PPR	Motor RPM	Pulse Freq	Universal Converter Use
1	5000	6000	500 KHz	Recommended
2	10000	3000	500.00 KHz	Recommended
3	10000	6000	10000.00 KHz	Recommended

Dimensions:90(H)x100(W)x60(D) mms :3 point DIN rail mounting

90(H)x75(W)x60(D) mms :2 point DIN rail mounting

Procedure to set Output pulse voltage:-

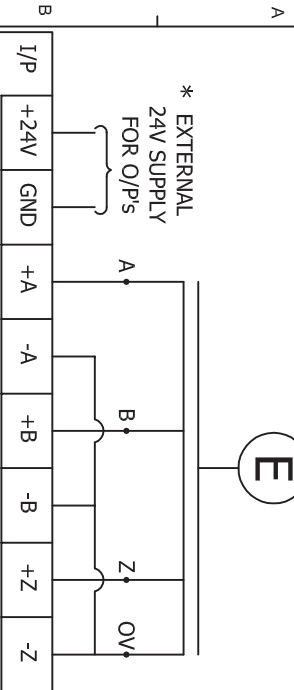
- Connect 24VDC power supply to the converter.
- Connect 5.0VDC at +A and -A for converter with input pulse 3-8VPP.
- Put the jumper JP1 on Vs place
- Make both supplies ON and connect voltmeter between terminals +AO and GND.
- Set the voltage to 5.25VDC by varying the blue preset PR.In clockwise direction voltage increases and vice versa.Check the differential output voltage between +AO and -AO,this will be 0.7V less than single ended voltage at +AO and GND.
- The output voltage is 22.5V if the jumper JP1 is on place 24V.
- If 27-30VDC power supply is available then output voltage 24V can be settable by preset keeping jumper JP on Vs place.This is recommended setting.

Standards /Approvals

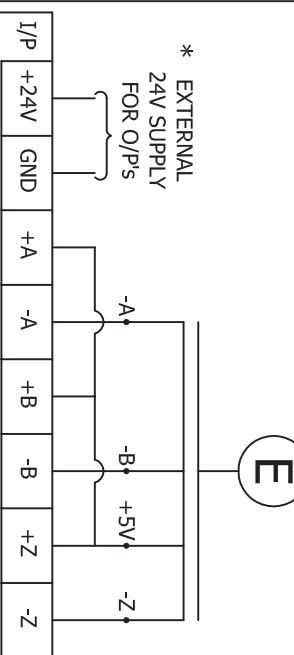
- CE Certified
- PCB :IEC61373
- Terminals:UL/CE
- Optoisolator:UL
- Profile & end plates : CE

Note:-Due to continuous product development the product supplied to you may differ from the product image in the document !

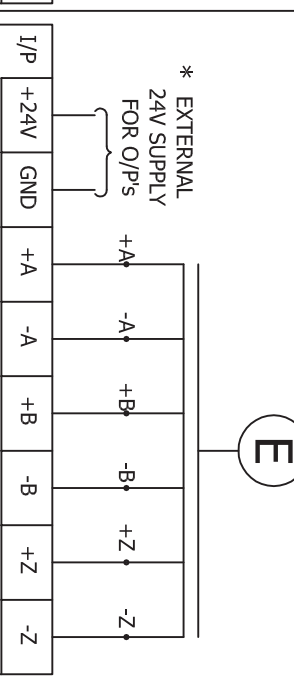
A) TO CONNECT 4 WIRE SOURCE TYPE ENCODER TO SOURCE TYPE LOAD



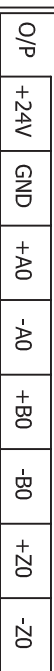
B) TO CONNECT 4 WIRE SINK TYPE ENCODER TO SINK TYPE LOAD



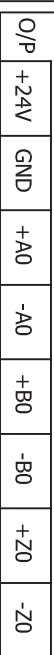
C) TO CONNECT 6 WIRE PUSH PULL TYPE ENCODER TO PUSH PULL LOAD



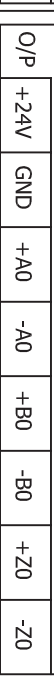
HTL - TTL CONVERTER



HTL - TTL CONVERTER



HTL - TTL CONVERTER



HTL - TTL CONVERTER(HIGH FREQ.)/ ENCODER SPLITTER/ SPLITTER MASTER SLAVE

NOTES : 1) * INCASE OF ENCODER SPLITTER/SPLITTER MASTER SLAVE.

		S.P.D	17.02.2017	S.C.M	17.02.2017	S.P.D	17.02.2017	HTL - TTL CONVERTER(HIGH FREQ.)/ ENCODER SPLITTER/SPLITTER MASTER SLAVE		
		APPR. BY/DATE		DRN. BY/DATE		CHKD. BY/DATE		DESCRIPTION: - SPLITTER/SPLITTER MASTER SLAVE		
		* IF IN DOUBT, PLS. ASK. SHEET NO.: 6 OF 7		© DISTRIBUTION ARE RESERVED		DMG NO.: -5		PROJECT: -		
		APPR. BY		DATE		APPR. BY/DATE		CUSTOMER: -		
REV NO	DESCRIPTION	1	2	3	4	5	THIS IS A CAD DRAWING. DO NOT REVISE MANUALLY. DO NOT TAKE REPRODUCIBLE COPIES			

