

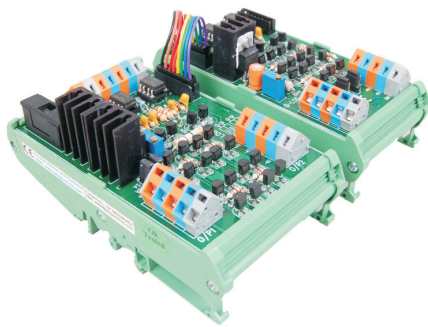
Encoder Splitter 1000KHz Multiple Outputs

Multi output Encoder splitter:-This product is in modular form and has master card and slave card.Maximum four cards can be cascaded on single master card.Master Encoder splitter receives four signals from incremental encoder or simulated encoder output from servo drive and converts these signals in to two sets of encoder signals viz +A,-A,+B and -B.The output signals are optically isolated from the input signals. Slave Encoder card receives four encoder signals from master encoder card and gives two sets of of encoder signals viz +A,-A,+B and -B.

Features

- Input signals 3-10 or 10-30VDC
- 10 Encoder output sets from single encoder input
- Sink / Source/ Push pull / Open collector (Transistor) outputs.
- Supply voltage 24-30 VDC@1Amp
- Output pulse voltage 5/10/24 VDC as per customer's requirement.
- Each output can drive150mA load.
- Din rail mountable

Product Picture



DIN rail mounting

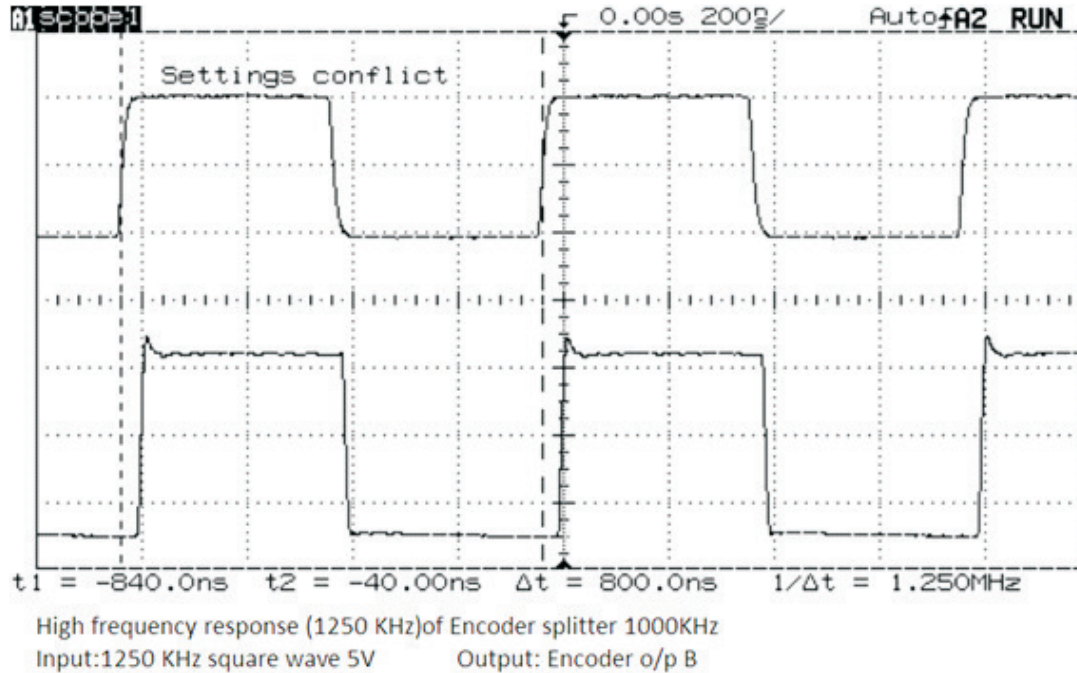
Order Information:

Sr.NO	Splitter specifications	Order Code
1	Master,4-10VPP input,DIN rail mounted	QLOG-MSPL-5-DIN
2	Master,10-24VPP input,DIN rail mounted	QLOG-MSPL-24-DIN
3	Slave,4-10VPP input,DIN rail mounted	QLOG-SSPL-5-DIN
4	Slave,10-24VPP input,DIN rail mounted	QLOG-SSPL-24-DIN

Typical Switching Characteristic of optoisolator Circuit

SWITCHING CHARACTERISTICS						
PARAMETER	TEST CONDITION	SYMBOL	MIN.	TYP.	MAX.	UNIT
Propagation delay time to logic low output level	without peaking capacitor	t _{PHL}		120		ns
	with peaking capacitor	t _{PHL}		115	300	ns
	without peaking capacitor	t _{PLH}		125		ns
	with peaking capacitor	t _{PLH}		90	300	ns
Output rise time	10 % to 90 %	t _r		40		ns
Output fall time	90 % to 10 %	t _f		10		ns

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



Encoder PPR and pulse frequency calculations:

Sr No	Encoder PPR	Encoder Shaft RPM	Pulse Freq	Suitable Splitter
1	10000	2000	333.34 KHz	1000 KHz
2	10000	5000	833.33 KHz	1000 KHz
3	10000	6000	1000.00 KHz	1000 KHz

Technical specifications:

Input signal voltage: 3 VDC-30VDC, available in 2 variants 3-10VDC/10-30VDC

Max. input current: 5 mA

Min. input current: 1.6 mA

Max. output voltage: 30 VDC

Min. output voltage: 5.0 VDC

Max. load per output point: 150 mA

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

Input to output electrical isolation: 3.55 KV

Applications:

- Connecting one encoder to multiple Servo Drives/PLC encoder modules
- To change encoder signal level
- To connect incremental encoder with incompatible signal level to control system.
- For connecting one signal level (5-30 VDC) to another signal level (5-15 VDC) with isolation.

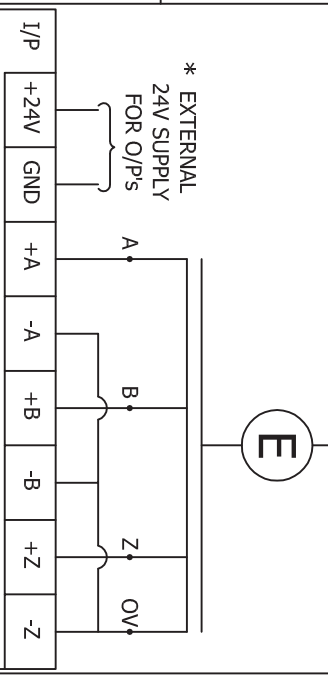
Dimensions:

Sr.NO	Encoder splitter	Height mm	Width mm	Depth mm
1	Master	126	75	65
2	Slave	126	66	65

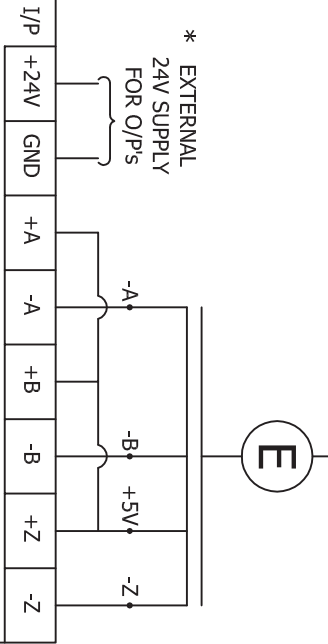
Standards /Approvals

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

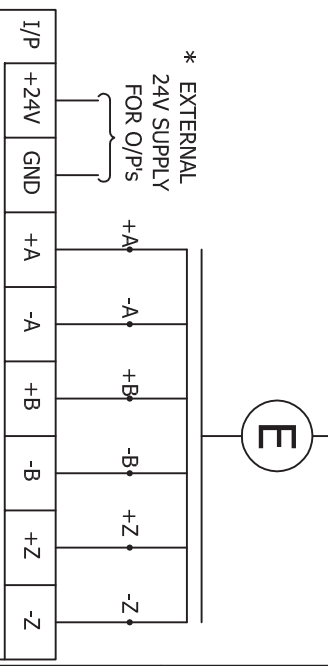
1) TO CONNECT 4 WIRE SOURCE TYPE ENCODER TO SOURCE TYPE LOAD



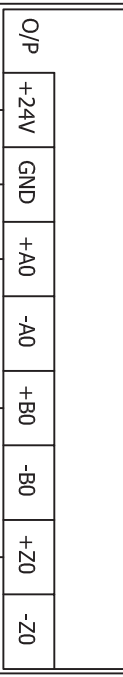
2) TO CONNECT 4 WIRE SINK TYPE ENCODER TO SINK TYPE LOAD



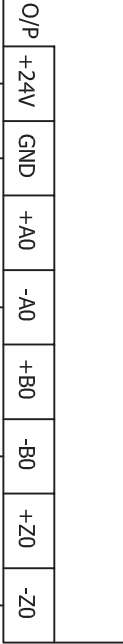
3) TO CONNECT 6 WIRE PUSH PULL TYPE ENCODER TO PUSH PULL LOAD



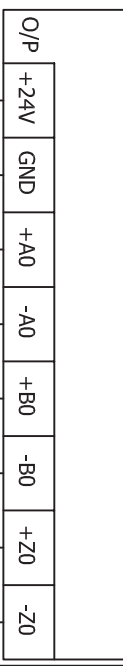
HTL - TTL CONVERTER



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			S.C.M			S.P.D		
17.02.2017			17.02.2017			17.02.2017		
APPR. BY/DATE			APPR. BY/DATE			CHKD. BY/DATE		
* IF IN DOUBT, PLS. ASK. SHEET NO.: 6 OF 7			© ALL RIGHTS OF REPRODUCTION & DISTRIBUTION ARE RESERVED			HTL - TTL CONVERTER(HIGH FREQ.)/ ENCODER SPLITTER/SPLITTER MASTER SLAVE		
1			2			3		
REV NO			DESCRIPTION			APPR. BY		
1			1			1		
<div style="display: flex; justify-content: space-between;"> Q-Log Controls and Systems PROJECT - </div> <div style="display: flex; justify-content: space-between;"> DMG NO.: -5 CUSTOMER:- </div> <div style="display: flex; justify-content: space-between;"> THIS IS A CAD DRAWING. DO NOT REVISE MANUALLY. DO NOT TAKE REPRODUCIBLE COPIES </div>								