



Signal amplifier ZEST-6 version 2.0 is a useful tool for connecting the tachograph to ABS, speed limiter, retarder, motor brake, etc. (5 outputs). It is used in cases where the signal output of the tachograph can not provide sufficient current for multiple devices at once. The outputs are independent of each other, so that any fault - overload, disconnection, breakdown on the positive pole of the battery, etc. - is transmitted without interruption to the remaining intact channels. The amplifier is connectable to the 12V and 24V installations.

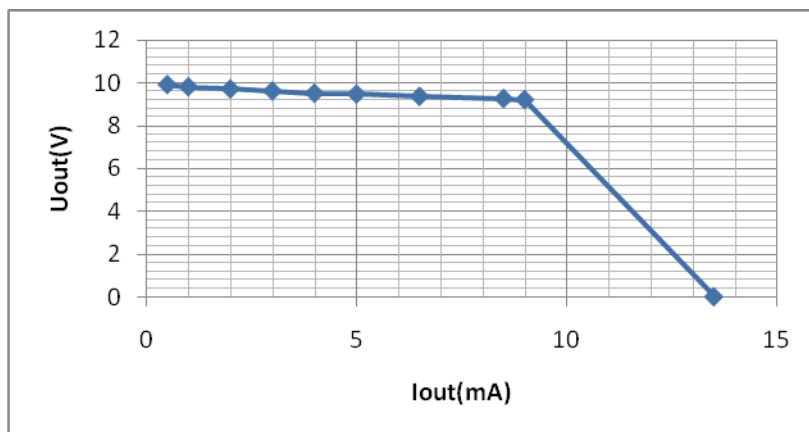
Characteristic data :

Symbol	Parameter	Size			Value
		min		max	
U _{CC}	Power voltage	12		32	V
U _{IH}	Input voltage - level H	4		U _{CC}	V
U _{IL}	Input voltage - level L	0		3	V
U _{OH}	Output voltage - level H U _{CC} =24V, I _{OH} =9mA, Graph 1	9,2		10	V
U _{OL}	Output voltage - level L U _{CC} =24V, I _{OL} =0,5mA, Graph 2		0,05		V
f _{IN}	Frequency of input signal	0		10	kHz
I _{CCH}	Subscription from source - level H (Unbound Outputs)		22		mA
I _{CCH}	Subscription from source - level L (Unbound Outputs)		12		mA
t	Operating temperature	-40		85	°C

Output current short-circuit one output - graph 1,2

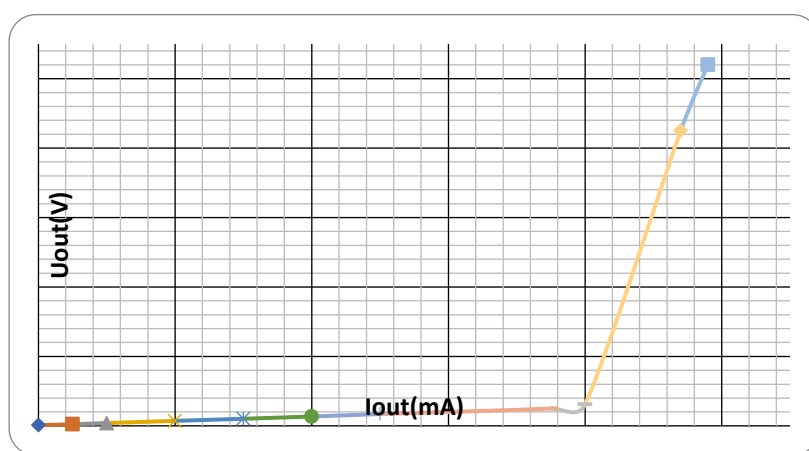
Graph 1

U _{in} =10V, U _{cc} =24V	
I _{out} (mA)	U _{out} (V)
0,5	9,9
1	9,8
2	9,7
3	9,6
4	9,5
5	9,46
6,5	9,35
8,5	9,25
9	9,2
13,5	0,001

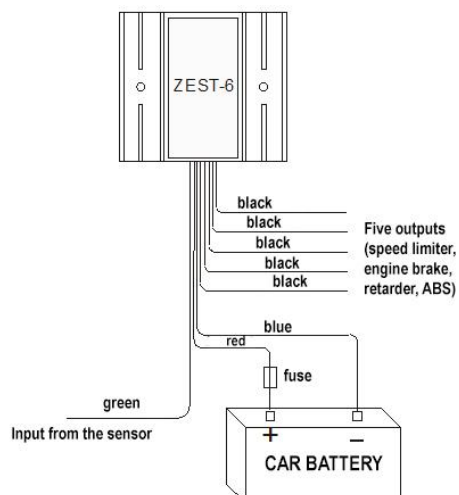


Graph 2

U _{in} =0V, U _{cc} =24V	
I _{out} (mA)	U _{out} (V)
0,001	0,02
0,5	0,046
1	0,08
2	0,144
3	0,204
4	0,27
5	0,34
7,5	0,5
8	0,62
9,4	8,5
9,8	10,4



Connection:



Inductors: CYA 0.5 length 300mm

Red - +24V onboard voltage
 Blue - ground
 Green - signal input
 Black - 5 x output

Technical drawing: (surface modification - black anodised)

