





RESOLVER TO DI GITAL CONVE RTER

The LTN G-RDC is a position data converter. The LTN G-RDC drives autonomous a resolver sensor and converts its output signals to digital position data.



SPECIFICATIONS - C ONVERTER OUTPUT / CONTROL

Output Signals:	16 bit: binary position data, parallel, H-active 1 bit: /B IT (Error), L-active	Output Ref. Signal:	8 V _{PP} (diff.) 100 m A max. 5 kHz
Input Signal:	1 bit: / Inhibit, L-active	Input SIN / COS:	4 V _{PP} (max.)
	1 bit: / Enable, L-active		Resolver Transformation Ratio K = 0,5
Resolution:	16-bit / 65536 steps per revolution		
Output Voltage Level:	TTL (5 V)		
Output Current:	30 m A	POWER SUPPLY	
Accuracy:	0,072° (4 arcmin +1 LSB max.)		
Repeatability:	+/- 1 LSB	Supply Voltage (+Vs):	+10 to +36 V _{DC}
Angular speed:	up to 18 s ⁻¹ (to be specified on order)	Power Consumption:	~1,5 W (e.g. 60 m A at 24 V)
		Operating Temperature:	0 to +85°C

RESOLVER OUTPUT / INPUT

The supply voltage can be supplied via the power connector or optionally via the encoder connector (from the encoder decoding unit). The G-RDC is protected against the wrong polarity and transient overvoltage of power supply and short circuit proof on output terminals.

Housing: Dimensions: Phoenix Contact "M E 22,5" for top hat rail mounting I = 114,5 mm; h = 99 mm, w = 22,5 mm



CONNECTOR TERMINALS

Data Out /Controll I/O:				
Sub-D, 25-pole female				
-> mating connector: male				
Pin 1	Out DB1 (M SB)			
Pin 2	Out DB2			
Pin 3	Out DB3			
Pin 4	Out DB4			
Pin 13	Out DB13			
Pin 14	Out DB14			
Pin 15	Out DB15			
Pin 16	Out DB16 (LSB)			
Pin 17	Out /BIT (Error)			
Pin 18	IN /Inhibit			
Pin 19	IN /Enable			
Pin 20	NC			
Pin 21	NC			
Pin 22	NC			
Pin 23	V _s (Opt.)			
Pin 24	g ND			
Pin 25	g ND			
Screen	PE			

Resolver IN: Sub-D, 9-pole female				
-> mating connector: male				
Pin 1	Ref-			
Pin 2	-			
Pin 3	-			
Pin 4	-			
Pin 5	SIN+			
Pin 6	SIN-			
Pin 7	Ref+			
Pin 8	C OS+			
Pin 9	C OS-			
Screen	PE			

Power connector: 4-pole plug, screw wire connection, included			
Pin 1 (left)	+V _s		
Pin 2	+V _s		
Pin 3	GND		
Pin 4	GND		
Max. loopthroughed current:			
+V _s :	P in 1 - Pin 2: 3 A		
GND:	P in 3 - Pin 3: 3 A		

The PE connection (protective earth) is implemented over the mounting clamp to the top hat rail.

ORDERING INFORMATION

G-RDC TLSC65536-0XX-24

Supply Voltage (+V_s): +10 to +36 V_{DC} Output Voltage Level: TTL (5 V)

Other configurations on request.

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