RESOLVE R

G-REC

RESOLVER TO ENCODER CONVERTER

The LTN-REC is a position data converter.
The LTN-REC drives autonomous a resolver sensor and converts its output signals to encoder incremental (square wave) output signals (emulates encoder signals).

SPECIFICATIONS - ENCODER OUTPUT

Output Signals:	incremental A+, A-, B+, B-, Z+, Z-
Resolution:	1024 incremental steps per revolution
Output Voltage Level:	5 V - 36 V, limited by the supply voltage
Output Current:	100 mA limited, short circuit proof
Dynamic Peak Current:	1500 mA max.
Accuracy:	+/- 0,184° (+/- 11 arcmin)
Repeatability:	+/- 1/4 of incremental step
Angular speed:	up to 1000 s^{-1}, load depending, has to be tested

RESOLVER OUTPUT / INPUT

Output Ref. Signal:	8 V_{PP} (diff.)
	100 mA max.
	10 kHz
Input SIN / COS:	4 V_{PP} (max.)
	Resolver Transformation Ratio K = 0,5

POWER SUPPLY

Supply Voltage (+V_S):	+8 to +15 V_{DC} or +14 to +36 V_{DC}
Power Consumption:	~1 W (e.g. 40 mA at 24 V)
Operating Temperature:	0 to +85 °C

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

Housing:	Phoenix Contact „ME 22,5“ for top hat rail mounting
Dimensions:	l=114,5 mm; h = 99 mm, w = 22,5 mm

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CONNECTOR TERMINALS

Encoder Out: Sub-D, 9-pole male -> mating connector: female	
Pin 1	G ND
Pin 2	Z-
Pin 3	Z+
Pin 4	A
Pin 5	A+
Pin 6	-
Pin 7	+ V_S (Opt.)
Pin 8	B-
Pin 9	B+
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:	
$+V_S$:	Pin 1 - Pin 2: 3 A
GND:	Pin 3 - Pin 3: 3 A

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

ORDERING INFORMATION

G-REC LDBI-1024-5X1-15	Supply Voltage ($+V_S$): +8 to +15 V_{DC}	Output Voltage Level: 5 V
G-REC LDBI-1024-5X1-24	Supply Voltage ($+V_S$): +14 to +36 V_{DC}	Output Voltage Level: 5 V

Other configurations on request.

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