



## Absolute encoders

- ▶ 10 bit
- ▶ SSI interface, Gray or Binary code
- ▶ CAN-Open interface
- ▶ **BiL** interface



## ELECTRICAL SPECIFICATION

Supply voltage +EV	9-30V (36V)	5V ±10%
	Polarity protected	---
Current consumption at no load, SSI	90mA @ 24V Max 140mA	180mA Max 230mA
BiLL 9-36V	90mA @ 24V Max 120mA	---
CAN-Open 9-36V	100mA @ 24V Max 150mA	---
Resolution	Max 10 bit	
Accuracy	± ½ LSB	

Outputs, Serial	SSI Interface	
Code	Gray or Binary	
CLOCK input	RS-422	
DATA output	RS-422	
Frequency range CLOCK	100kHz - 1MHz	
Cable length	Max 100m	
Inputs	/HOLD	DIRECTION
+EV = 9-30V		
Uhigh	> +EV x 0,6	> +EV x 0,6
Ulow	< +EV x 0,25	< +EV x 0,25
+EV = 5V		
Uhigh	> 2V	> 2V
Ulow	< 0,8V	< 0,8V
Active	Low	High (CCW)
Not connected	High	Low (CW)
Delay	10µs	150µs

Outputs, Serial	BiLL	CAN-Open spec 2.0
Code	Binary	Part A and B
Output	RS-485	CAN
Address, input pins to 0V	4 bit	7 bit
Baud rate	4,8 - 62,5 kbit/s	5 kbit/s - 1 Mbit/s
Cable length	According to RS-485 standard	

## CONNECTION

Function	Function	12pin EML	8 pin PT	Colour
CAN / BiLL	SSI			
Address Bit 0	CLOCK	1	A	White
Address Bit 1	CLOCK	2	B	Brown
Address Bit 2	DATA	3	C	Grey
Address Bit 3	DATA	4	D	Pink
Address Bit 4		5		Black
Address Bit 5		6		Violet
Address Bit 6		7		Grey/Pink
CAN_H / 485-B	/HOLD	8	G	Green
CAN_L / 485-A	DIRECTION	9	H	Yellow
0 Volt	0 Volt	10	E	Blue
+E Volt	+E Volt	12	F	Red
Address 0 Volt		11		Blue/Red
Case				Shield

## ACCESSORIES

Mating connector	
CAN options -31-	Part. No. 01209090 (12 pin EML)
CAN and BiLL	Part. No. 00201009 (8 pin PT)
Mounting bracket	See datasheets for accessories
Mounting kit	
Bearing box	
Couplings	
BiLLcom Software for PC	Part. No. 01290024 English
CAN open EDS file	Part. No. 01290026

