



Absolute singleturn encoder

- ▶ 12-bit
- ▶ SSI, Binary or Gray-code
- ▶ **BiLL** interface
- ▶ CAN Kingdom or CAN Open interface
- ▶ Change of counting direction via input signal
- ▶ Serial output
- ▶ 11...30 Vdc or 5 Vdc



ELECTRICAL SPECIFICATION

Supply voltage +EV	11-30V (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	12 bit 4096, 3600ppr	
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-Kingdom CAN-Open
Code	Binary	CAN specification 2.0 part A and B
Output	RS-485	CAN
Adress, 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

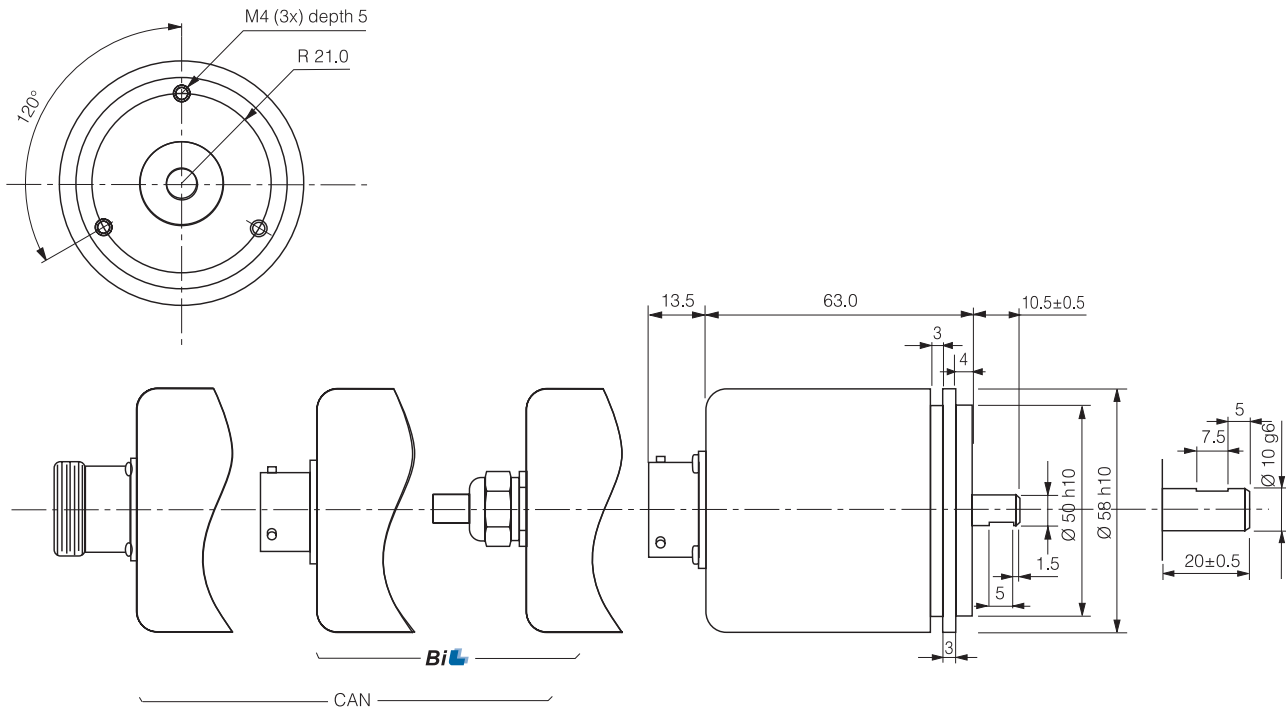
Function	Function	12pin EML	8 pin PT	Colour
CAN / BiLL	SSI			
Address Bit 0	CLOCK	1	A	White
Address Bit 1	CLOCK	2	B	Brown
Address Bit 2	DATA	3	C	Grey
Address Bit 3	DATA	4	D	Pink
Address Bit 4		5		Black
Address Bit 5		6		Violet
Address Bit 6		7		Grey/Pink
CAN_H / 485-B	/HOLD	8	G	Green
CAN_L / 485-A	DIRECTION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

ACCESSORIES

Mating connector	
CAN options -31, 41- CAN and BiLL	Part. No. 01209090 (12 pin EML) 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. 01290016

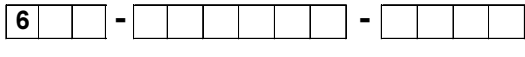


672 SERIAL



MECHANICAL SPECIFICATION	
Shaft, Stainless steel	Ø 6mm, 10mm
Moment of inertia	1,9 x 10 ⁻⁶ kgm ²
Load max	
Radial	20N
Axial	10N
Speed max	
Mechanical	12000 rpm
Electrical	1500 rpm
Code disc	Unbreakable acrylic glass
Temperature	
Operating	-25°C ... +60°C
Storage	-25°C ... +70°C
Housing	Aluminum, anodized
Weight	Approx. 300g
Protection class	IP 65 according to IEC 529
Vibration	<100m/s ² (50...2000 Hz)
Shock	<1000m/s ² (11ms)
Cable	18x0,25mm ² PVC

ORDERING INFORMATION



- Type**
72 = Syncro flange
- Option**
10 = SSI, Gray code
11 = SSI, Binary code
20 = BiLL, 8 pin PT or cable
30 = CAN-Kingdom, 8 pin PT or cable
31 = CAN-Kingdom, 12 pin EML
40 = CAN-Open, 8 pin PT or cable
41 = CAN-Open, 12 pin EML
- Shaft**
1 = Ø 6 mm with face
6 = Ø 10 mm with face
- Connection**
0 = Connector, axial
1 = Cable, axial 1.5 m
8 = Cable, axial xx m
- Supply voltage**
1 = 5 Vdc (SSI)
5 = 11...30 Vdc (SSI)
8 = 9...36 Vdc (BiLL, CAN)
- Internal use**
3 = 12 bit
- Resolution**
3600 or 4096



Leine & Linde AB, Box 8, SE-645 21 Strängnäs, Sweden. Olivehällsvägen 8.
Phone: +46 (0)152 265 00. Fax: +46 (0)152 265 05. E-mail: info@leinelinde.se

01-03-22 PS. Specifications can be changed without prior notice.