



Absolute singleturn encoder

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



ELECTRICAL SPECIFICATION

Supply voltage +EV	11-30V (36V) Polarity protected	5V ±10% ---
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 positions / revolution	
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 CANopen
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	12 pin EML	8 pin PT	Colour
CAN / BiLL			
Adress Bit 0	1	A	White
Adress Bit 1	2	B	Brown
Adress Bit 2	3	C	Grey
Adress Bit 3	4	D	Pink
Adress Bit 4	5		Black
Adress Bit 5	6		Violet
Adress Bit 6	7		Grey/Pink
CAN_H / 485-B	8	G	Green
CAN_L / 485-A	9	H	Yellow
0 Volt	10	F	Blue
+E Volt	12	E	Red
Adress 0 Volt	11		Blue/Red
Case			Shield

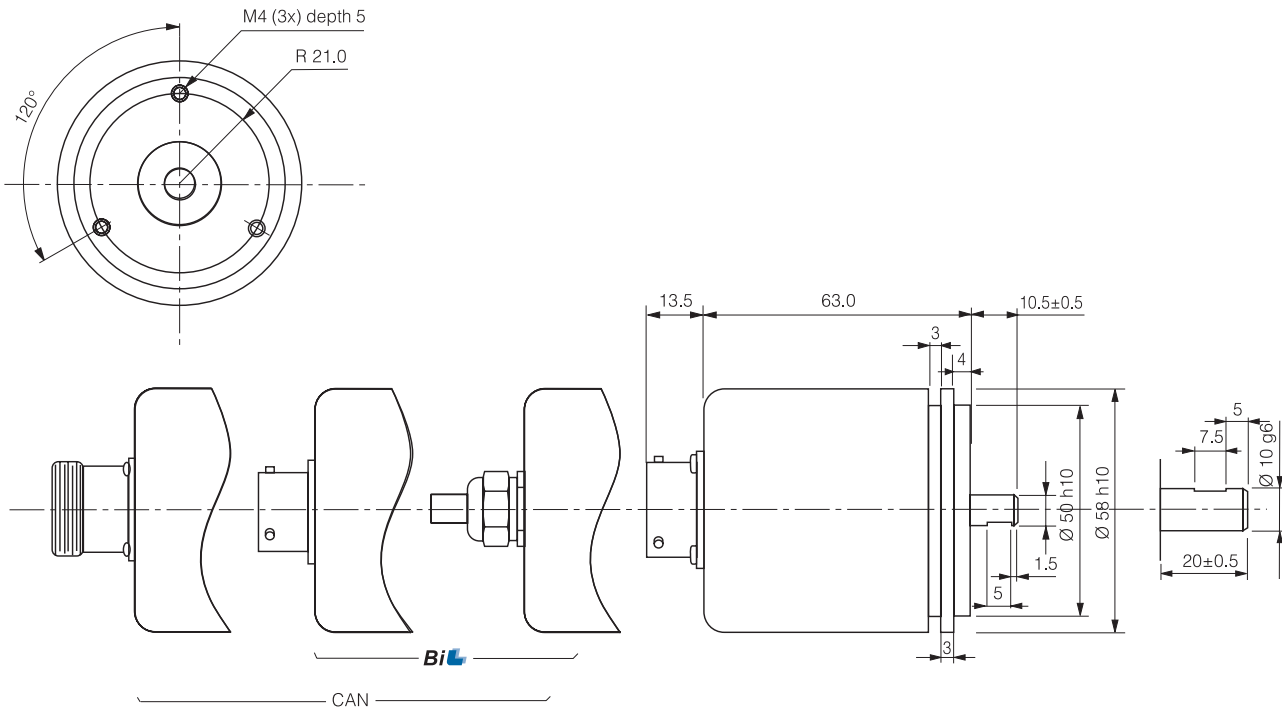
Function	12 pin EML	8 pin PT	Colour
SSI			
CLOCK +	1	A	Yellow
CLOCK -	2	B	Green
DATA +	3	C	White
DATA -	4	D	Black
/HOLD	8	G	Brown
DIRECTION	9	H	Violet
0 Volt	10	F	Blue
+E Volt	12	E	Red
Case			Screen

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	$1,9 \times 10^{-6} \text{ kgm}^2$
Load max	
Radial	20N
Axial	10N
Speed max	
Mechanical	12000 rpm
Electrical	1500 rpm
Code disc	Standard
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 = Synchro 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 = CANopen, 8 pin PT or cable
- 41 = CANopen, 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

4096



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04-06-17 PS. Specifications can be changed without prior notice.