

Heavy Duty incremental encoder

- ▶ High vibration and shock resistance according to IEC 68-2-6 and IEC 68-2-27
- ▶ Electrically insulated up to 2.5kV
- ▶ IP 65, encapsulation class according to IEC 529
- ▶ 6 or 3 short-circuit protected outputs
- ▶ 9...30 Vdc, polarity protected power supply
- ▶ Available with Advanced internal diagnostics, ADS



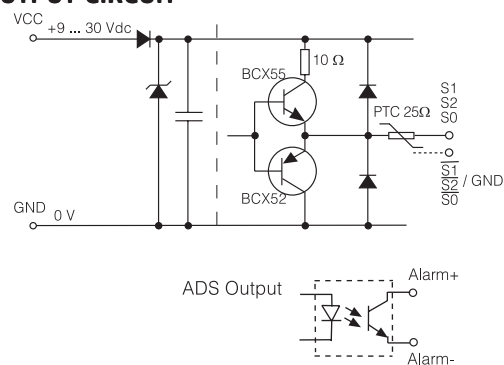
ELECTRICAL SPECIFICATION

Supply voltage +EV	9-30V	
	Polarity protected	
Current consumption at no load	60mA @ 24V Max 80mA	
Line counts	500, 1000, 1024, 2048, 2500, 3072, 4096, 5000, 6350, 10000	
Measuring steps	4 x Line counts	
Accuracy	1-500ppr	5001-10000ppr
Dividing error	± 50° el	± 90° el
Channel separation	90° ± 25° el	90° ± 45° el
Outputs	HC-HTL	HTL
	Short circuit protected	
Load max	± 40mA	± 40mA
Max cable length	350m @ 100kHz	200m @ 50kHz
U _{high} (at 40mA load)	> +EV - 4,0V	> +EV - 2,0V
U _{low} (at 40mA load)	≤ 2,5V	< 1,15V
Frequency range	0...100kHz	0...200kHz
Option	Advanced Diagnostic System ADS	
Alarm output	Opto-coupler	
OK	Closed-circuit	V _{CE} < 2V at 10mA
Error	Open-circuit	min 500ms
Voltage max	35V	
Current max	30mA	
PC communication	RS-232	Max 10m cable

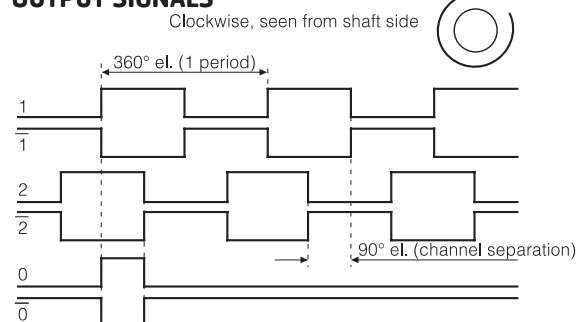
ACCESSORIES

Torque arm	
M5	Part. No. 01208013
M6	Part. No. 01208014
ADS PC software kit	Part. No. 01209084

OUTPUT CIRCUIT



OUTPUT SIGNALS

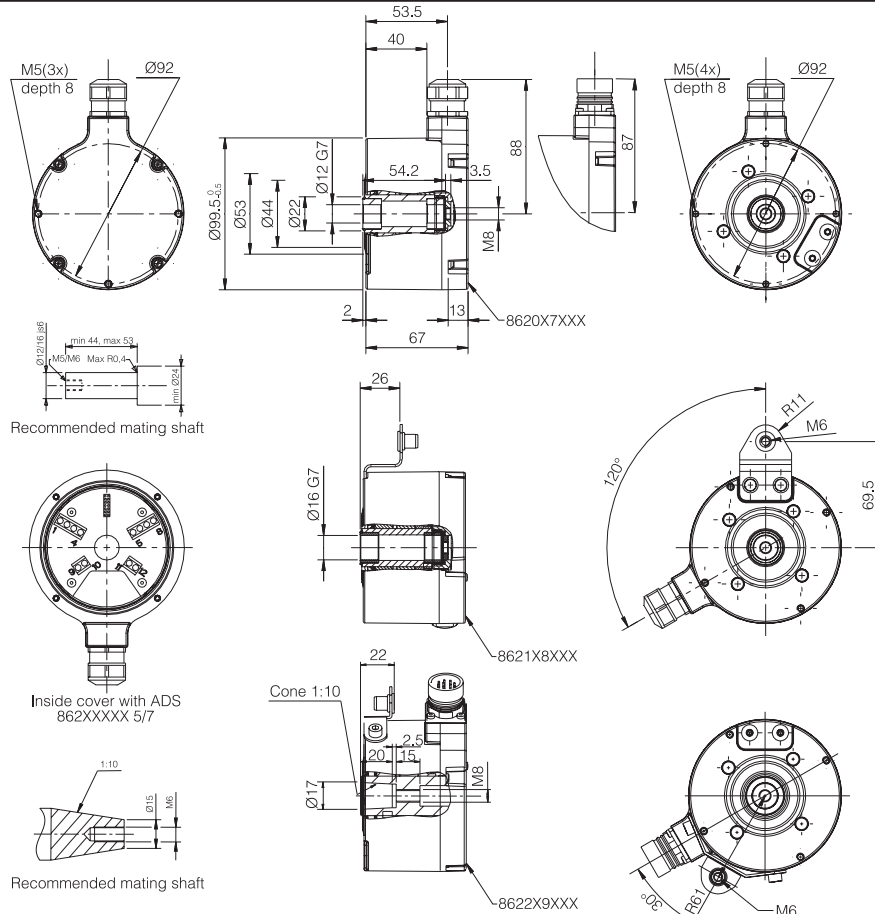


CONNECTION

Function	Terminal	12 pin EML	Colour
+ E Volt	1	12	Red
0 Volt	2	10	Blue
0	3	3	Brown
0 (0 Volt *)	4	4	Violet
1	5	8	Green
1 (0 Volt *)	6	1	White
2	7	5	Yellow
2 (0 Volt *)	8	6	Black
Alarm +	9	9	Grey
Alarm -	10	11	Pink
RXD	11	7	Grey / Pink
TXD	12	2	Red / Blue
Case			Shield

* 3 channel output.
All 0 Volt pins are internally connected on the PCB.

ADS outputs



MECHANICAL SPECIFICATION

Isolated Hollow-shaft	Ø12, 16mm, Stainless steel	
Moment of inertia	55 x 10 ⁻⁶ kgm ²	
Load max		
Radial	300N	
Axial	100N	
Speed max	4000 rpm	
Code disc	Extended temp	
Temperature		
Operating	High current HTL	HTL
Storage	-40°C ... +80°C	-40°C ... +100°C
Housing	Aluminum, coated	
Weight	Approx. 1300g	
Protection class	IP 65 according to IEC 529	
Electrical isolation	<2.5kV	
Vibration	<100m/s ² (50...2000 Hz) IEC 68-2-6	
Shock	<1000m/s ² (11ms) IEC 68-2-27	
Cable	10x0,25mm ² twisted pair PVC (Not ADS)	
Connector	12 pin EML	

ORDERING INFORMATION

8 6 2 - 0 - - - - -

Option

Mechanical

- 0 = Standard
- 1 = 120° torque bracket
- 2 = 30° torque bracket

Hollow-shaft

- 7 = Ø 12 mm, insulated up to 2.5kV
- 8 = Ø 16 mm, insulated up to 2.5kV
- 9 = Ø 17 mm, taper shaft, insulated up to 2.5kV

Connection

- 1 = Connector, radial 12 pin EML CW
- 2 = Connector, radial 12 pin EML CCW
- 3 = Cable, radial 1.5 m
- 4 = M20 cable gland, radial Ø8-11mm
- 5 = M20 cable gland, radial Ø11-14mm
- 9 = Cable, radial xx m

Supply voltage

- 2 = 9...30 Vdc (HC-HTL), overvoltage protected
- 3 = 9...30 Vdc (HTL), overvoltage protected
- 5 = 9...30 Vdc (HC-HTL)
- 6 = 9...30 Vdc (HTL)

Outputs

- 4 = 3 channels 1, 2, 0*
- 5 = 3 channels 1, 2, 0 with ADS**
- 6 = 6 channels 1, 1, 2, 2, 0, 0
- 7 = 6 channels 1, 1, 2, 2, 0, 0 with ADS*

Line counts

- 500, 1000, 1024, 2048, 2500, 3072, 4096, 5000
- 6350, 10000 ppr (Other line counts on request)

* Not available with supply voltage option -3- or -6-

** Not available with supply voltage option -3- or -6- or EML connector

LEINE LINDE ISO 9001 / ISO 14001 certified

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