

MG500-SERIES



MAGNETIC INCREMENTAL ENCODER 30Ø MM

Encoder with synchro flange and 3 mounting holes M3

- Ø 30 mm
- 4 mm solid shaft without face or 6 mm with face
- Enlarged sturdy bearings
- Ingress protection to IP67
- Standard: 7-35V Power supply, 100kHz
2 Square Wave signals
- Options: Markerpulse, and/or inverted signals
5V Power supply, 300 kHz
- Customization upon request



*Flexible and durable
encoder for demanding
applications*



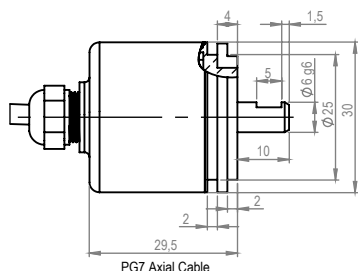
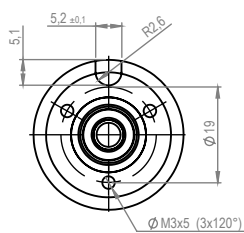
File E342441



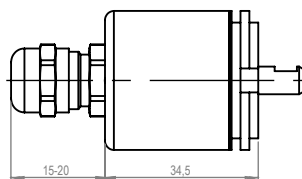
Conforms to european EMC directive
89/336/EEC standards:
EN61000-6-4 emission in industrial environments
EN61000-6-2 immunity in industrial environments

MAGNETIC INCREMENTAL ENCODER MODEL MG500

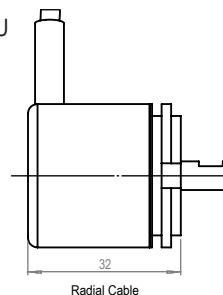
Con. 1XU



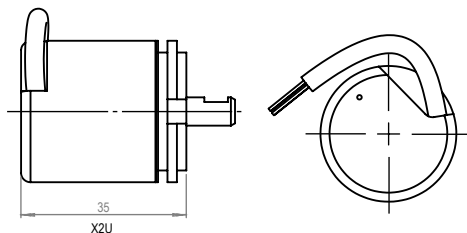
Con. 1XLU



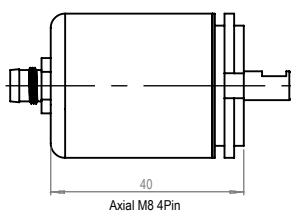
Con. 2XU



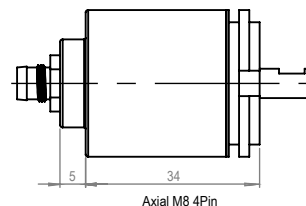
Con. X2U



Con. 34



Con. 34V



ELECTRICAL SPECIFICATION, STANDARD

Power supply	Vcc 7–35 Vdc
Current consumption	Max 40 mA, without load
Output circuit	HTL
Low level output volt Max	<0,5 V at 20 mA load and 20°C
High level output volt	Min >Vcc-2V at 20mA load and 20°C
Short circuit protected	Yes
Polarity protected	Yes
Transient protected	Yes
Max load	70 mA

OUTPUT SIGNALS, STANDARD

CCW rotation viewed
from shaft end



SIGNAL ACCURACY

Dividing error max	±50 el°
Channel separation	90 ±25 el°
Max frequency	100 kHz
Operating temperature	40° till +80°C

MECHANICAL SPECIFICATION

Housing	Aluminum, electrically conductive for increased interference protection
Sealing	IP67 dust and splash proof (IP66 at shaft outlet)
Bearings	Permanently greased
Bearing load at	1 000 rpm
Radial	30 N Gives 50 000 hrs
Axial	30 N bearing life
Max rpm	3 000 (12 000)
Vibration	20g 20-2000 Hz
Chock	200g at 11 ms

CONNECTIONS

1xU	Axial cable, Unitronic, PUR
1xLU	Axial cable, Unitronic, PUR
2xU	Radial cable, Unitronic, PUR
X2U	Axial/Radial 2m cable, Unitronic PUR
34	Axial 4-pin M8 male connector
34V	Axial 4-pin M8 male connector

FUNCTIONS

	U, Unitronic	34	Mating cable M8
1	Green	3	Blue
2	Yellow	4	Black
+V	Brown	1	Brown
0V	White	2	White
Screen ^(*)	Chassis		Chassis

* Only available on cable type S, Shielded cable

MATING CONNECTOR

M8SR5,	Snap Straight 5m 4x0,25 PUR/PUR
M8SV2,	Snap Angled 2m 4x0,25 PUR/PUR
M8SV5,	Snap Angled 5m 4x0,25 PUR/PUR

ORDERING CODE

Model	MG500 - 06 - 0200 - 12U
Shaft seize 4 or 6 mm	
Pulserate 1-1024	
Connection	
X= cable lenght (m)	

emeta
encoders

Skogsvägen 1, SE-645 34 Strängnäs, Sweden
Tel: +46 152 33 11 90 Fax: +46 152 33 11 91
E-mail: info@emetaencoders.com