

## MG553 - SERIES



### BEARINGLESS INCREMENTAL ENCODER Ø 30 MM

*Encoder with synchro flange*

- High ingress protection class IP68
- Non-contact measuring principle
- No wearing parts and long useable life
- Small dimensions

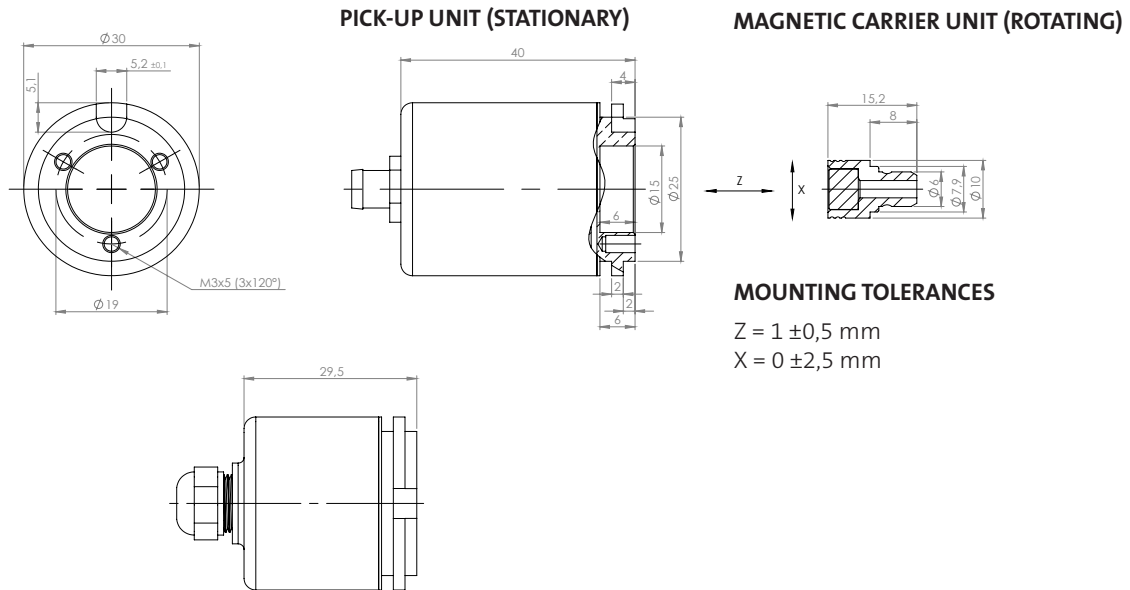
Standard: 7-35Vdc Power Supply, 100 kHz  
2 Square Wave Signals up to 1024 ppr  
Marker pulse with LED indication

Options: Inverted signals and Marker pulse  
Customization upon request



*Flexible and durable  
encoder for demanding  
applications*

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

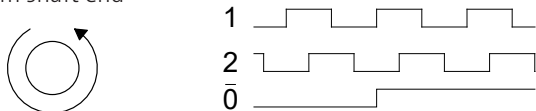


### ELECTRICAL SPECIFICATION, STANDARD

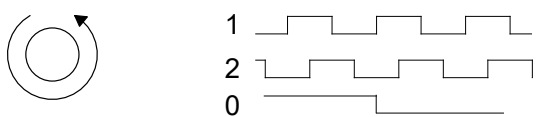
Power supply	Vcc 7–35 Vdc
Current consumption	Max 40 mA, without load
Output circuit	Line driver
Low level output volt	Max <0,5 V at 20 mA load and 20°C
High level output volt	Min >Vcc-2V at 20mA load and 20°C
Short circuit protected	Yes (thermal)
Polarity protected	Yes
Transient protected	Yes
Max load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

### OUTPUT SIGNALS, MG553N (0inv-PULSE = 180° MECHANICAL)

CCW rotation seen from shaft end



### OUTPUT SIGNALS, MG553P (0-PULSE = 180° MECHANICAL)



### SIGNAL ACCURACY

Resolution	1 to 1024 ppr
Max frequency	100 kHz
Operating temperature	-40° to +70°C

### MECHANICAL SPECIFICATION

Housing material	Aluminum, electrically conductive for increased interference protection
Encapsulation class	IP68 (IEC 60529)
Max. rotational speed	9000 rpm
Vibration	50g 20-2000 Hz (IEC 60068-2-6)
Chock	200g at 11 ms (IEC 60068-2-27)
Weight	Approx. 30 g (without cable)

### CONNECTION

1xU	Axial cable, 5x0,25 PUR, free cable length
35	Axial 5-pin M8 connector

### FUNCTION

Model	MG553N - Pin		MG553P - Pin	
<b>1</b>	Green	3	Green	3
<b>2</b>	Yellow	4	Yellow	4
<b>0</b>	NC	NC	Gray	5
<b>0 invert</b>	Gray	5	NC	NC
<b>+V</b>	Brown	1	Brown	1
<b>0V</b>	White	2	White	2

### ORDERING CODE

Model	MG553N	6	17	1	X
Shaft ø6 mm					
Pulserate (1-1024)					
Connection					
X= meter cable					

NC = Not Connected  
Rev. 2020-02-07, Specifications in this datasheet is subject to change without prior notice.

