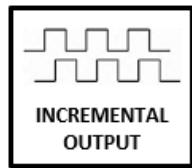


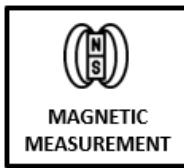
NON-CONTACT INCREMENTAL ROTARY ENCODER

ART B 58 Series

“Magnetic Non-Contact Measurement,
58 mm Body Diameter”



INCREMENTAL
OUTPUT



MAGNETIC
MEASUREMENT



LONG SERVICE
LIFE



HIGH
ACCURACY



IP65
PROTECTION

- Non-contact measurement with magnetic principle
- Incremental output
- 58 mm body diameter
- Resolution options between 1 pulse and 1024 pulses
- Operating speed up to 20.000 RPM
- IP65 protection class
- High sensitivity
- Robust structure, long service life

ART B 58 series rotary encoders measure with magnetic principle and work contactless.

They consist of 2 parts, the encoder body and rotor. They have long operating life as they make non-contact measurement. They can also operate at high speeds up to 20,000 RPM. They work incrementally and offer resolution up to 1024 pulses.

MECHANICAL DATA

Dimensions	Encoder: Ø58 Rotor: Ø30
Material	Encoder: Aluminum Rotor: Aluminum
Weight	Encoder: ~180g Rotor: ~10g

ENVIRONMENTAL DATA

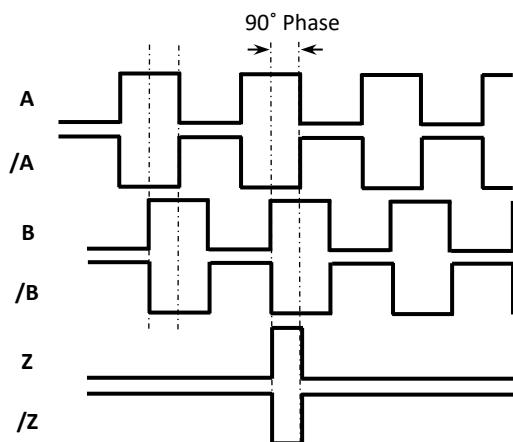
Protection Class	IP65
Operating Temp.	-25°C...+85°C
Storage Temp.	-40°C...+100°C

ELECTRICAL DATA

Measuring Type	Magnetic, non-contact							
Resolution	All resolution values between 1 and 1024 pulses							
Operating Speed	20.000 RPM max.							
Response Frequency	300 KHz							
Current Consumption	50 mA nominal							
Supply and Output Type		PP	TTL	HTL	HPL	OCL	OCP	
Supply	10...30 VDC	5 VDC	10...30 VDC	5...30 VDC	The supply signal should not be lower than the output signal			
Output	10...30 VDC PP	5 VDC TTL	5 VDC TTL	5...30 VDC PP	NPN Open Collector	PNP Open Collector		
Output Signals	A, /A, B, /B, Z, /Z							
Output Current	100 mA max. (per channel)							
Electrical Connection	5 x 0,14mm ² shielded cable (outer dimater: 5 ±0,2 mm) (When output signal is selected as 2 or 3) 8 x 0,14mm ² shielded cable (outer dimater: 6,5 ±0,2 mm) (When output signal is selected as 4 or 6)							

ELECTRICAL CONNECTION

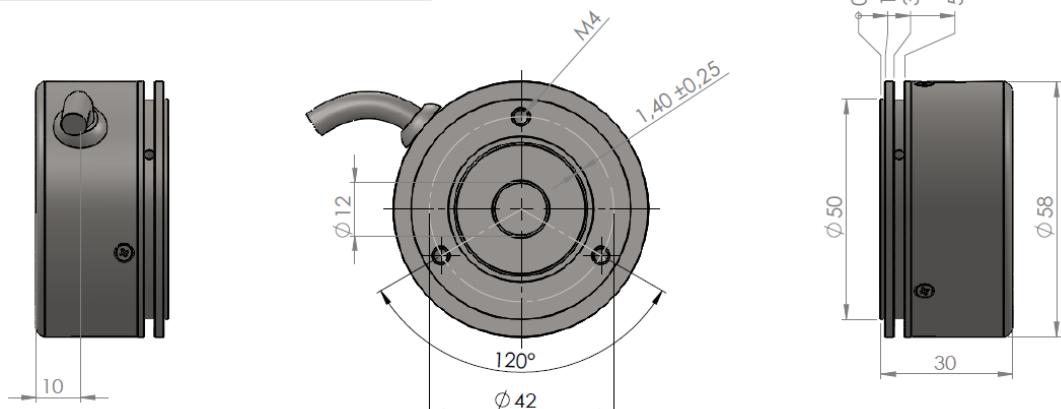
SIGNAL	CABLE COLOR
A	YELLOW
/B	WHITE
+V	RED
0 V	BLACK
/A	BLUE
B	GREEN
/Z	GREY
Z	PINK



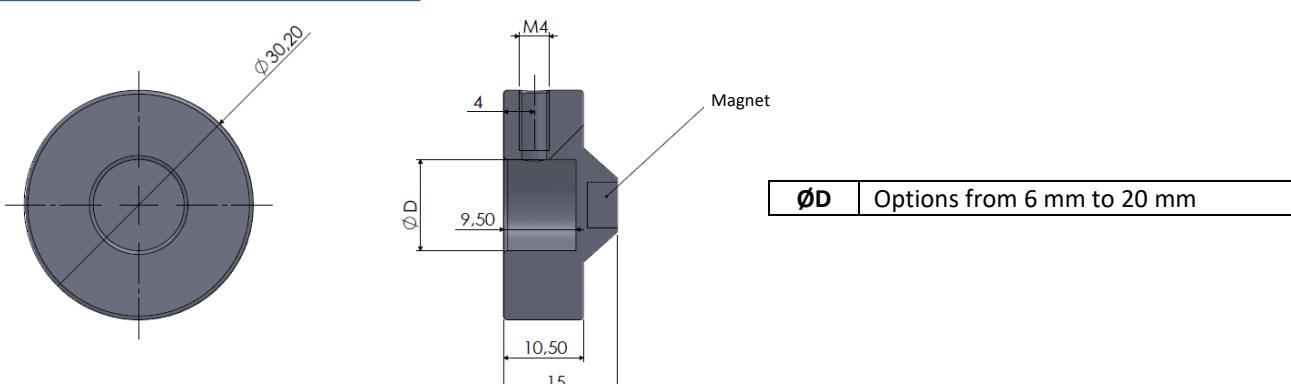
The table above shows the cable colors of the sensor output signals. If the control circuit is suitable in the Line Driver sensors of the not output signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be fixed as insulated separately. Don't forget that these edges have electricity too.

MECHANICAL DIMENSIONS (mm)

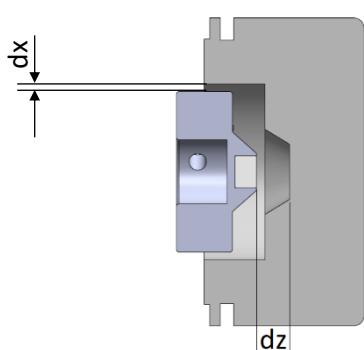
Encoder Body



Rotor



MAGNET - ENCODER SENSING DISTANCE AND POSITION TOLERANCE



Sensing Distance = $dz = 1,3 - 2 \text{ mm}$

Alignment = $dx = 1,40 \pm 0,25 \text{ mm}$

ORDER CODE

Model	Type	Resolution	Output Signals	Cable Direction	Hollow Diameter
ART	B : Semi hollow shaft	All resolution values between 1 and 1024 pulses are available	2 (A,B) 3 (A,B,Z) 4 (A,/A,B,/B) 6 (A,/A,B,/B,Z,/Z)	Y : From side	Different hollow diameters between 6mm and 20 mm
ART - T - XXX - XXXX - XXX - X - XX - X - X	Body Diameter	Supply and Output	Cable Length		
058 : 58 mm	PP : 10...30 VDC Supply : 10...30VDC Output TTL : 5 VDC Supply : 5 VDC TTL RS422 Line Driver Out. HTL : 10...30 VDC Supply : 5 VDC TTL RS422 Line Driver Out. HPL : 5...30 VDC Supply : 5...30 VDC Push-Pull Output OCL : NPN Open Collector OCP : PNP Open Collector	3M : 3M (Standard) 5M : 5M 8M : 8M 10M : 10M	*Optional others		