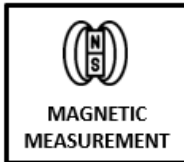
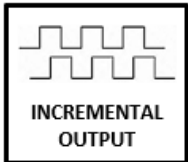
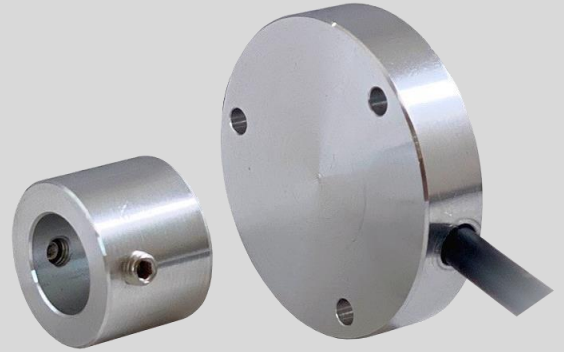


ARS T 40 Series

“Magnetic Non-Contact Measurement, 40 mm Body Diameter”



- Incremental measurement with magnetic principle
- Resolution up to 1024 pulses
- 40 mm body, 20 mm rotor diameter
- 3000 RPM operating speed
- 300 KHz response frequency
- High accuracy
- Robust structure, long operating life
- Compact design
- IP67 protection class

ARS T 40 series are non-contact magnetic incremental rotary encoders with high operating speed suitable for using in harsh environments.

They consist of 2 parts, the encoder body and rotor. They have long operating life as they make non-contact measurement. They work incrementally and offer resolution up to 1024 pulses. They are suitable for industries where high speed, IP protection sealing and excellent wear and temperature resistance are required.

کانون ابزار

تلفن :

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MECHANICAL DATA

Dimensions	Encoder: $\varnothing 40$
	Rotor: $\varnothing 20$
Material	Encoder: Aluminum
	Rotor: Aluminum
Weight	Encoder: ~55g (except cable)
	Rotor: ~10g

ENVIRONMENTAL DATA

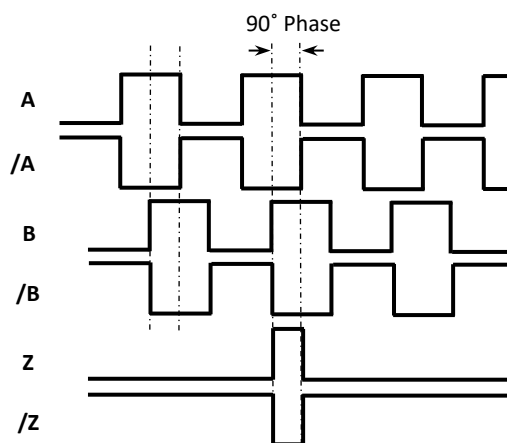
Protection Class	IP67
Operating Temp.	-25°C...+85°C
Storage Temp.	-40°C...+100°C

ELECTRICAL DATA

Measuring type	Magnetic, non-contact						
Resolution	Resolution options between 1 and 1024 pulses						
Operating Speed	3000 RPM max.						
Response Frequency	300 KHz						
Current Consumption	50 mA nominal						
Supply & 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 or 8x0,14 mm ² shielded cable						

ELECTRICAL CONNECTION

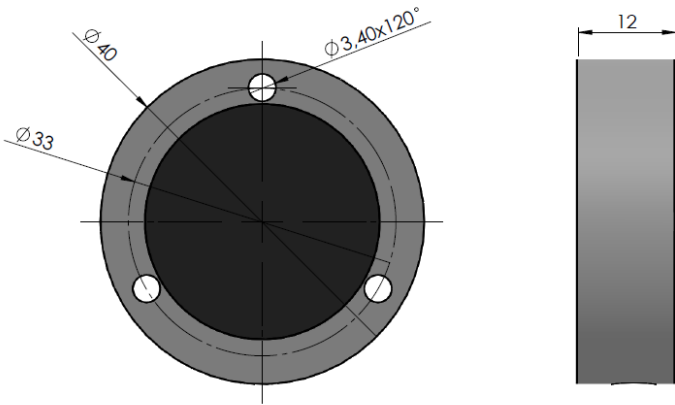
SIGNAL	CABLE COLOR
A	YELLOW
/B	WHITE
+V	RED
0V	BLACK
/A	BLUE
B	GREEN
/Z	GREY
Z	PINK



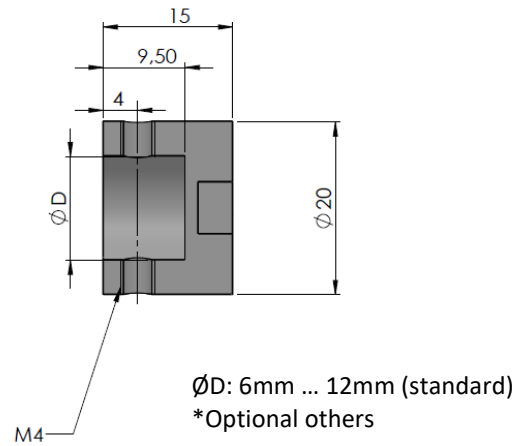
The table above shows the cable colors of the sensor output signals. If the control circuit is suitable in the Line Driver sensors of the not output signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be fixed as insulated separately. Don't forget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

MECHANICAL DIMENSIONS (mm)

Body

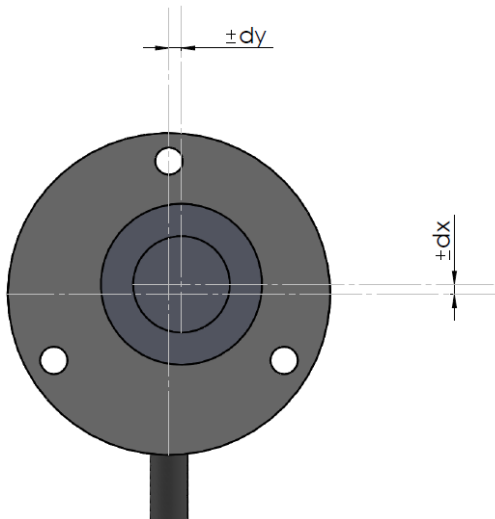


Rotor

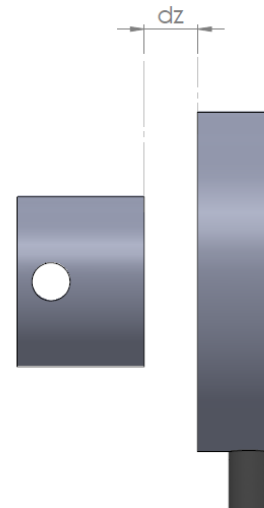


MAGNET POSITION TOLERANCES

Max misalignment $dx = dz = 1\text{mm}$



Air gap $dz = 0,5 - 4\text{ mm}$



ORDER CODE

ARS	T	XXX	XXXX	XXX	X	XX	XX
Model	Type T : Non-contact	Body Diameter 040 : 40 mm	Resolution All resolution options from 1 to 1024 pulses.	Supply and Output 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	Output Signals 2 (A,B) 3 (A,B,Z) 4 (A,/A,B,/B) 6 (A,/A,B,/B,Z,/Z)	Electrical Connection 3M : 3 m cable (standard) 5M : 5 m cable 10M: 10 m cable *Optional others	Rotor Hole Diameter Selectable from 6mm to 12mm *Optional others

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