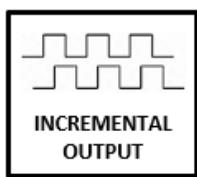
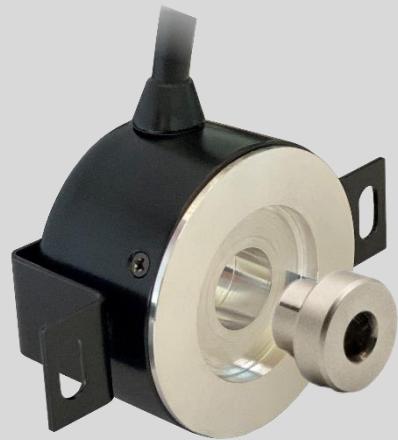


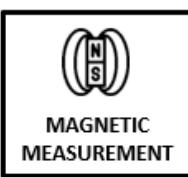
# NON-CONTACT INCREMENTAL ROTARY ENCODER

## ARP T 50 Series

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



INCREMENTAL  
OUTPUT



MAGNETIC  
MEASUREMENT



LONG SERVICE  
LIFE



HIGH  
ACCURACY



OPT. IP67  
PROTECTION

- Non-contact measurement with magnetic principle
- Incremental output
- 50 mm body diameter
- Resolution options between 1 pulse and 1024 pulses
- Operating speed up to 20.000 RPM
- Standard IP54, optional IP67 protection class
- High sensitivity
- Robust structure, long service life

ARP T 50 series rotary encoders measure with magnetic principle and work contactless.

They consist of 2 parts, the encoder body and magnet. 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.

Standard IP54, optionally IP67 protection class is available.

## MECHANICAL DATA

Dimensions	Encoder: Ø50 Rotor: Ø27
Material	Aluminum
Weight	Encoder: ~180g Rotor: ~10g

## ENVIRONMENTAL DATA

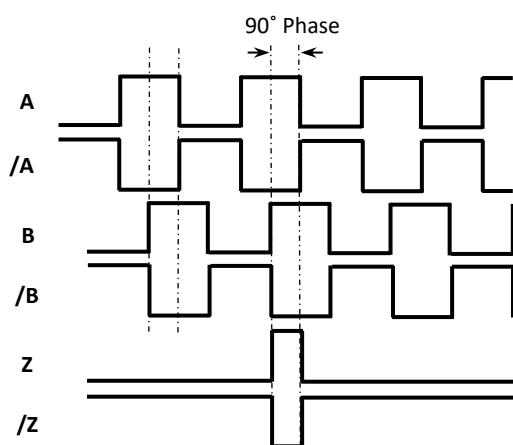
Protection Class	IP54 (Optional IP67)
Operating Temp.	-25°C...+85°C
Storage Temp.	-40°C...+100°C

## 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 <sup>2</sup> shielded cable (outer dimater: 5 ±0,2 mm) (When output signal is selected as 2 or 3) 8 x 0,14mm <sup>2</sup> shielded cable (outer dimater: 6,5 ±0,2 mm) (When output signal is selected as 4 or 6)						

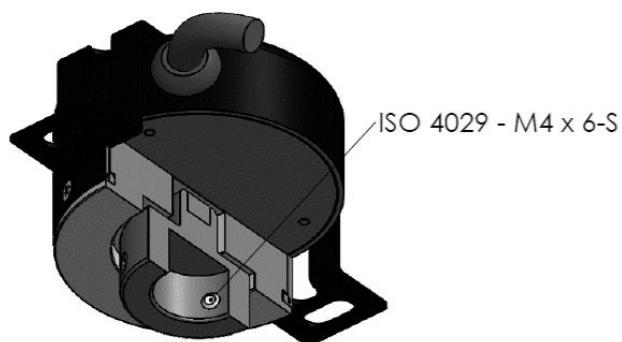
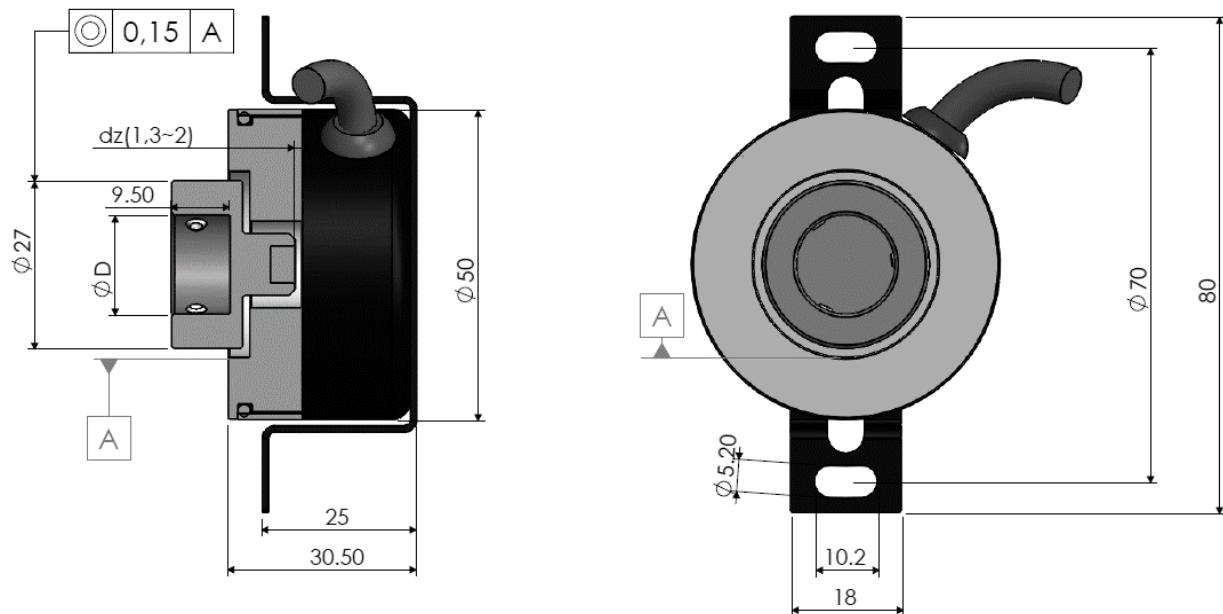
## ELECTRICAL CONNECTION

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)



## ORDER CODE

Model	Type T : Non-contact	Resolution All resolution values between 1 and 1024 pulses are available	Output Signals		Cable Direction Y : From side	Protection Class No code : IP54 (std) E067 : IP67
			XX	X		
ARP	= T = XXX = XXXX = XXX = X = XX = X = XXX = XXXX					
Model	Body Diameter 050 : 50 mm	Supply and Output	Electrical Connection	Rotor Hollow Diameter		
		PP : 10...30 VDC Supply : 10...30VDC Output	2M : 2m cable *Optional others	Different hollow diameters between 5mm and 16mm *Optional others		
		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				