

## ARP T 50 Series

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



- 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.

**کانون ابزار**

**تلفن :**

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## MECHANICAL DATA

<b>Dimensions</b>	Encoder: $\varnothing 50$
	Rotor: $\varnothing 27$
<b>Material</b>	Aluminum
<b>Weight</b>	Encoder: ~180g
	Rotor: ~10g

## ENVIRONMENTAL DATA

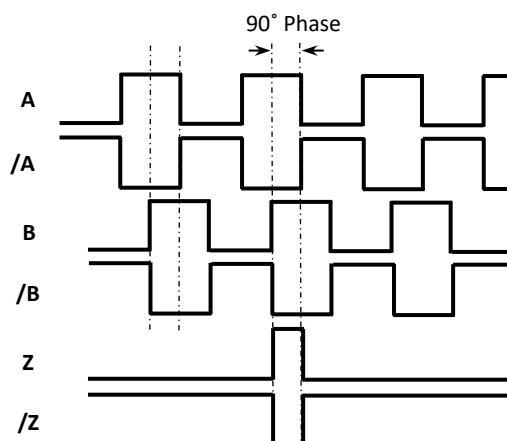
<b>Protection Class</b>	IP54 (Optional IP67)
<b>Operating Temp.</b>	-25°C...+85°C
<b>Storage Temp.</b>	-40°C...+100°C

## ELECTRICAL DATA

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

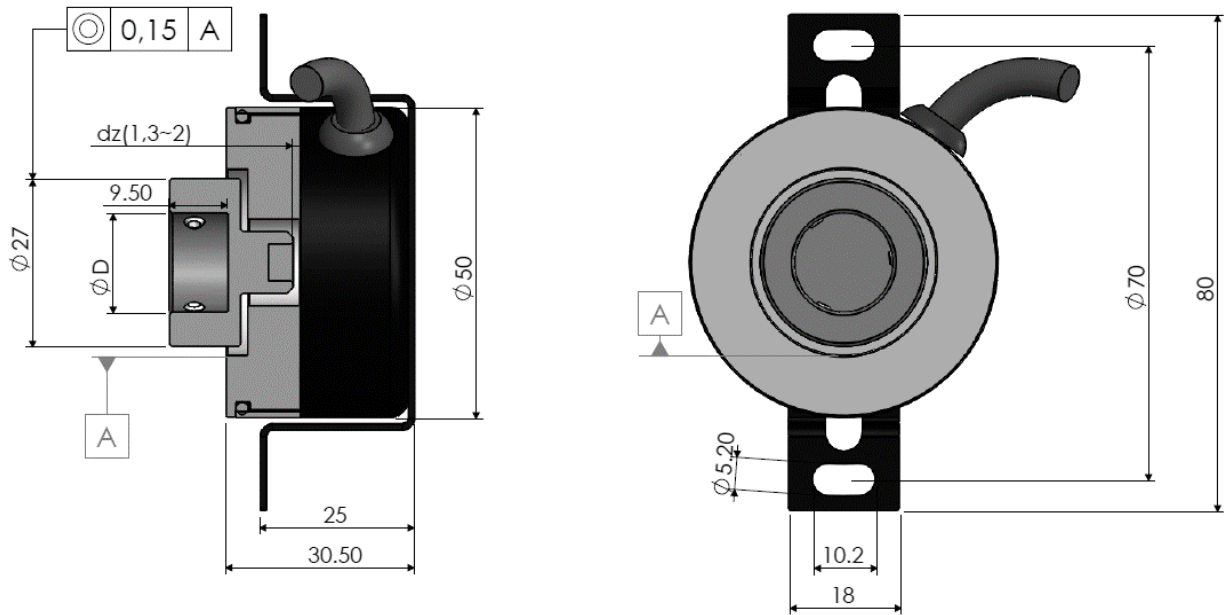
## ELECTRICAL CONNECTION

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

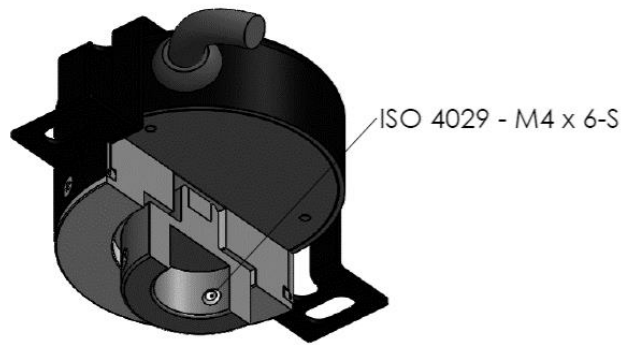


The table above shows the cable colors of the sensor output signals. If the control circuit is suitable in the Line Driver sensors of the not output signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be fixed as insulated separately. Don't forget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

## MECHANICAL DIMENSIONS (mm)



$\varnothing D$  = Options from 5mm to 16mm



## ORDER CODE

ARP	Type	XXX	XXXX	XXX	X	XX	X	XXX
<b>Model</b>	T : Non-contact	<b>Body Diameter</b> 050 : 50 mm	<b>Resolution</b> All resolution values between 1 and 1024 pulses are available	<b>Supply and Output</b> 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	<b>Output Signals</b> 2 (A,B) 3 (A,B,Z) 4 (A,/A,B,/B) 6 (A,/A,B,/B,Z,/Z)	<b>Electrical Connection</b> 2M : 2m cable *Optional others	<b>Cable Direction</b> Y : From side	<b>Hollow Diameter</b> Different hollow diameters between 5mm and 16mm *Optional others

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