

MICRO NON-CONTACT ROTARY ENCODER

ARM-T Series

"Ultra Small Size, Non-contact Magnetic Measurement"

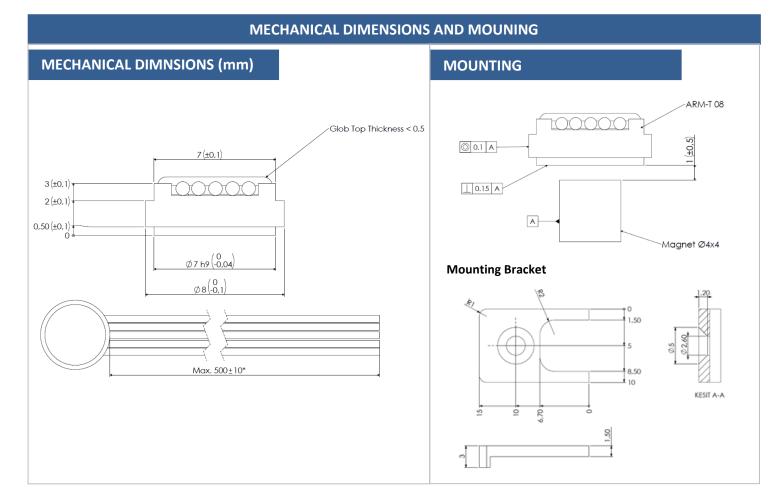


- Magnetic non-contact measurement
- Ultra small size of 8mm diameter
- Resolution options up to 1024 pulse
- High operation speed up to 30.000 rpm
- Incremental output
- Push-pull or TTL line driver output
- Robust structure, long service life
- IP68 protection

ARM-T series are compact, ultra small and durable magnetic rotary encoders designed for use in small spaces.

They consist of 2 parts, the encoder and the magnet. They have a long life thanks to non-contact magnetic measurement principle. They work incrementally and offer resolution up to 1024 pulses.

MECHANICAL DATA						
Encoder: Ø8						
Dimensions	Magnet: Ø4x4					
	Material Encoder: Aluminum Magnet: SmCo (Sm2 Co17), NiCuNi coated					
Material						
Weight	Encoder: ~0,5g					
weight	Magnet: ~0,5g					
Wire tickness	AWG26					
ENVIRONMENTAL DATA						
Protection	IP68					
Operating Temperature	-40°C+85°C	-40°C+85°C				
Strorage Temperature	-40°C+85°C	-40°C+85°C				
ELECTRICAL DATA						
Measuring Type	Magnetic, non-contact					
Resolution	Resolution options between 1 and 1024 pulses					
Operating Speed	30.000 RPM max.					
Response Frequency	2 MHz					
		РР	TTL	HTL	HPL	
Supply and Output Type	Supply	1030 VDC	5 VDC	1030 VDC	530 VDC	
	Output	1030 VDC PP	5 VDC TTL	5 VDC TTL	530 VDC PP	
	A, /A, B, /B, Z, /Z					
-	100 mA max. (per channel)					
	Only cable (max 500mm) or line driver board with JST-SH 8 pin male connector					
Wire tickness	AWG26					

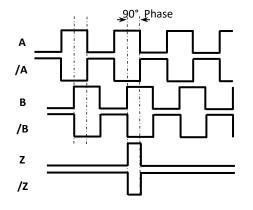


ELECTRICAL CONNECTIONS

	ENCODER CABLE COLOR	LINE DRIVER BOARD JST-SH 8 PIN MALE CONNECTOR PIN NO
SIGNAL		
+V	RED	1
0V	BLACK	2
/Z	N/C	3
Z	PINK	4
В	GREEN	5
/В	N/C	6
/A	N/C	7
A	YELLOW	8

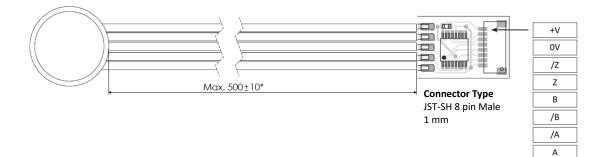
Note: If encoder is used only with cable; only A, B and Z output signals can be received.

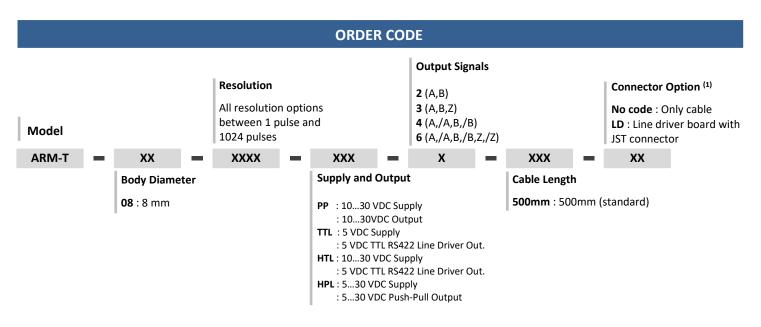
If encoder is used with line driver board with JST connector; A, /A, B, /B, Z and /Z output signals can be received.



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.

Line Driver Board JST-SH 8 Pin Male Connector Connection Diagram





(1) If encoder is used only with cable; only A, B and Z output signals can be received. If encoder is used with line driver board with JST connector; A, /A, B, /B, Z and /Z output signals can be received.

ACCESSORIES

Product	Product Code	Description	
	CB 0,5M / S28F	Connection cable with JST-SH 8 pin female connector, with 0.5 meters cable	
	CB 1M / S28F	Connection cable with JST-SH 8 pin female connector, with 1 meters cable	

SIGNAL	CABLE COLOR	PIN
+V	RED	1
0V	BLACK	2
/Z	GREY	3
Z	PINK	4
В	GREEN	5
/В	WHITE	6
/A	BLUE	7
A	YELLOW	8

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