

MICRO NON-CONTACT ROTARY ENCODER

ARM-T Series

"Ultra Small Size, Non-contact Magnetic Measurement"

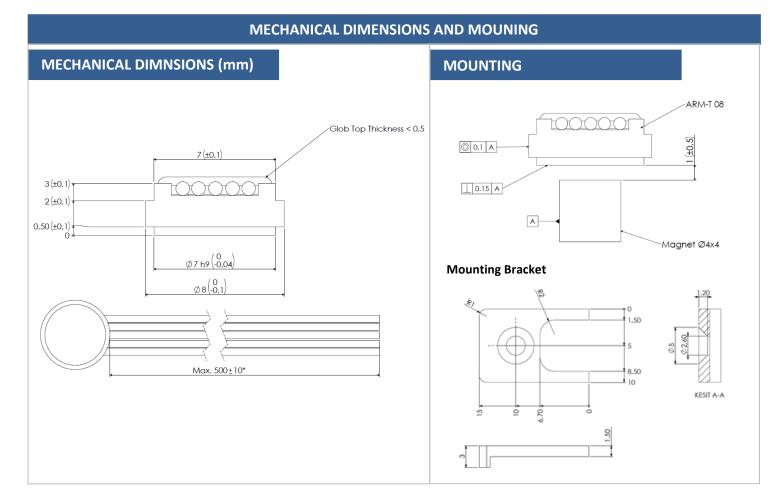


- Magnetic non-contact measurement
- Ultra small size of 8mm diameter
- Resolution options up to 1024 pulse
- High operation speed up to 30.000 rpm
- Incremental output
- Push-pull or TTL line driver output
- Robust structure, long service life
- IP68 protection

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 | | | | | |

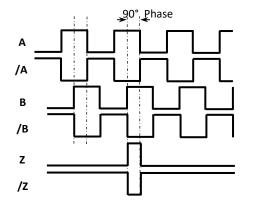


ELECTRICAL CONNECTIONS

| | 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 |

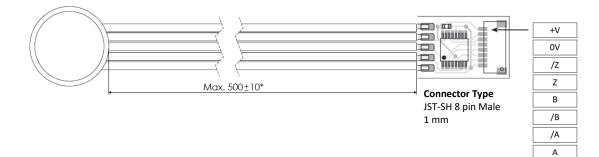
Note: If encoder is used only with cable; only A, B and Z output signals can be received.

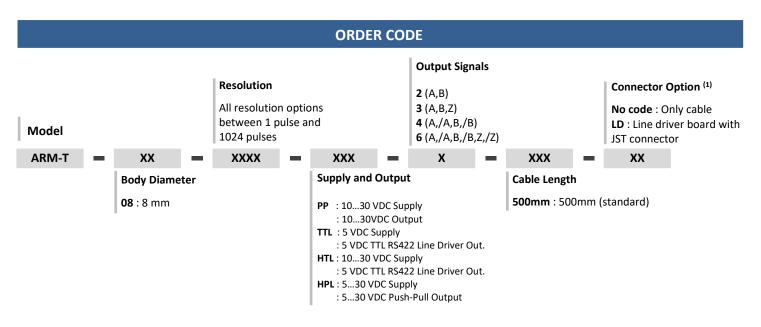
If encoder is used with line driver board with JST connector; A, /A, B, /B, Z and /Z output signals can be received.



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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