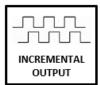


# **INCREMENTAL ROTARY ENCODER**

## **ARS T 40 Series**

"Magnetic Non-ContactMeasurement, 40 mm Body Diameter"













- Incremental measurement with magnetic principle
- Resolution up to 1024 pulses
- 40 mm body, 20 mm rotor diameter
- 3000RPM operating speed
- 300 KHz response frequency
- High accuracy
- Robust structure, long operating life
- Compact design
- IP67protection 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.

MEGATRON, s.r.o. Mrštíkova 16, 100 00 Praha 10, Tel.: +420 274 780 972, info@megatron.cz, www.megatron.cz

DS-ARX.018 Rev No:0

#### **MECHANICAL DATA**

Encoder: Ø40 **Dimensions** 

Rotor: Ø20

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

PP

Operating Speed 3000 RPM max.

Response Frequency 300 KHz

**Current Consumption** 50 mA nominal

|                      |        | • •       | • • •     | ****      |           | <del>ou</del>                       | <b>5</b> 4 |
|----------------------|--------|-----------|-----------|-----------|-----------|-------------------------------------|------------|
| Supply & Output Type | Supply | 1030 VDC  | 5 VDC     | 1030 VDC  | 530 VDC   | The supply signal lower than the ou |            |
|                      | Output | 1030VDCPP | 5 VDC TTL | 5 VDC TTL | 530VDC PP | NPN                                 | PNP        |

нП

HPI

Open Collector Open Collector

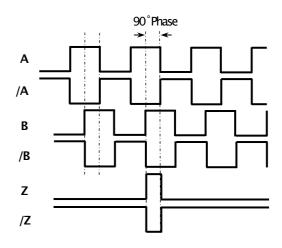
Output Signals A, /A, B, /B, Z, /Z

Output Current 100 mA max. (per channel)

**Electrical Connection** 5 or 8x0,14mm<sup>2</sup> shielded cable

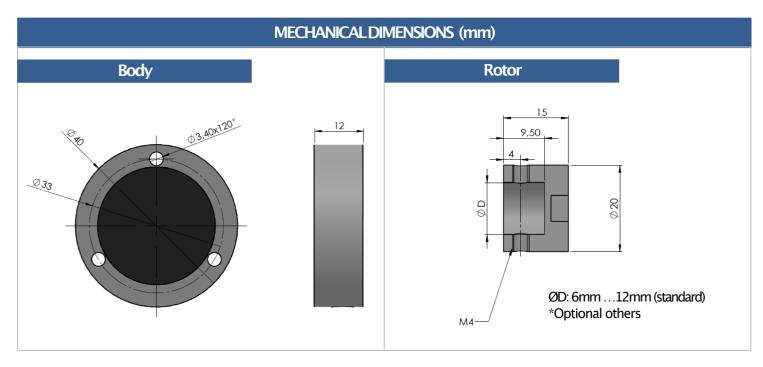
#### **ELECTRICAL CONNECTION**

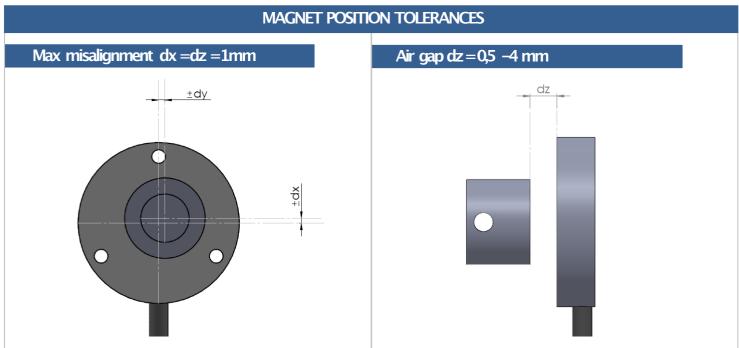
| SIGNAL | CABLE COLOR |
|--------|-------------|
| Α      | YELLOW      |
| /B     | WHITE       |
| +V     | RED         |
| 0 V    | BLACK       |
| /A     | BLUE        |
| В      | GREEN       |
| /Z     | GREY        |
| Z      | PINK        |

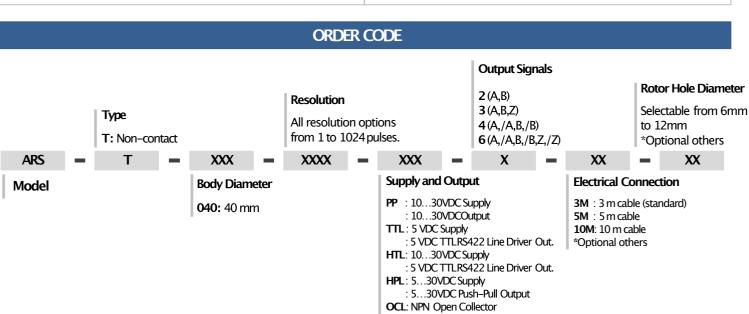


The table above shows the cable colors of the sensor output signals. If the control circuit is suitable in the Line Driver sensors of the not output signals (/A, /B, /Z) have to be added to the system. If it is not suitable /A, /B, /Z signal cables must be fixed as insulated separately. Don't forget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

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OCP: PNP Open Collector