

MAGNETIC INCREMENTAL KIT ENCODER

MAIN FEATURES

Contactless encoder with through hollow shaft up to 28 mm. The compact size (only $11\ mm$ thickness), the high IP grade and resistance to vibrations make this product an excellent solutions for heavy duty applications.

- · 2 channel encoder (A / B) up to 4096 ppr
- · Power supply up to +28 V DC with several electrical interfaces available
- · Up to 350 kHz output frequency
- · Cable output, connector available on cable end
- · Through hollow shaft diameter up to 28 mm
- · Shaft mounting by tolerance ring
- · Wide operating temperature -20 $^{\circ}$... +85 $^{\circ}$ C (-4 $^{\circ}$... +185 $^{\circ}$ F)









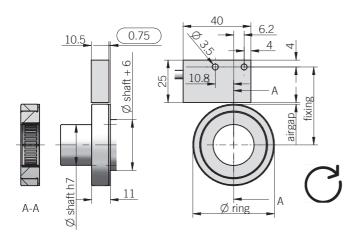
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custom version XXX

ETMR



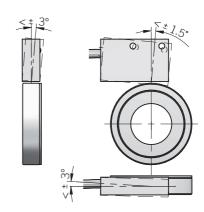
Model	A	В
ø ring	41,2	48
Fixing with 1 mm airgap	42,6	46
Airgap	1 ± 0,1	1 ± 0,1

dimensions in mm

ELECTRICAL SPECIFICATIONS Resolution from 64 to 4096 ppr (powers of 2) model A = 2 mmPole pitch model B = 5 mm $5=4,5\,...\,5.5$ V DC $_{5/28}=4,5\,...\,30$ V DC (reverse polarity protection) Power supply¹ Power draw without load 800 mW max Max load current 20 mA / channel push-pull / line driver HTL (AEIC-7272) Electrical interface² line driver RS-422 (AELT-5000 or equivalent) Max output frequency 350 kHz **Counting direction** A leads B clockwise \pm 0,35° typical / \pm 0,50° max Accuracy Electromagnetic according to 2014/30/EU directive compatibility RoHS according to 2015/863/EU directive UL / CSA certificate n. E212495

CONNECTIONS		
Function	Cable P	Cable L / RS
+V DC	red	red
0 V	black	black
A+	green	green
A-	/	brown or grey
B+	yellow	yellow
B-	/	orange
÷	shield	shield

Mounting tolerances



for mounting instruction please refer to product installation notes

Bore diameter	ø 9 / 9,52 (3/8") / 10 / 11 / 14 / 19 / 24 / 28 mm		
Enclosure rating	IP 67 (IEC 60529)		
Max rotation speed	8000 rpm		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibration	20 G, 10 2000 Hz (IEC 60068-2-6)		
Moment of inertia	115 x 10 ⁻⁶ kgm ² (27,29 x 10 ⁻⁴ lbft ²)		
Sensor body material	anodized aluminum		
Magnet-actuator material	1.4305 / AISI 303 stainless steel		
Operating temperature ^{3, 4}	-20° +85°C (-4° +185°F)		

100 g (3,53 oz)

-20° ... +85°C (-4° ... +185°F)

 $\begin{array}{c|c} \textbf{Magnet-actuator} & \pm 1 \text{ mm (axial)} \\ \textbf{mounting tolerances} & \pm 0.1 \text{ mm (radial)} \\ \end{array}$

Weight

Storage temperature⁴

MECHANICAL SPECIFICATIONS

² for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section ³ measured on the transducer flange

4 condensation allowed

RESOLUTIONS

64* - 128 - 256 - 512 - 1024 - 2048 - 4096

* available with mod.B; please directly contact our offices for other pulses

