

## ETMR

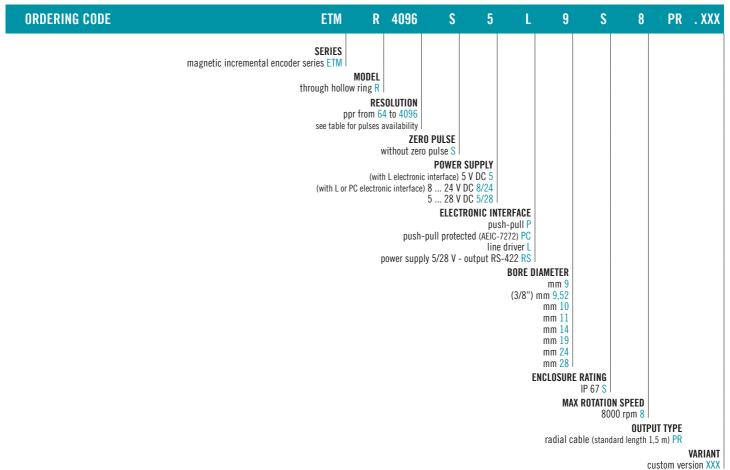
### MAGNETIC INCREMENTAL KIT ENCODER



### **Specifications**

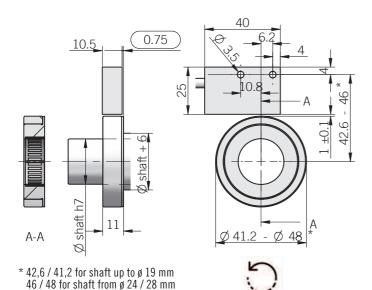
Contactless encoder with through hollow shaft up to 28 mm. The compact size (only 11 mm thickness), the high IP grade and resistance to vibrations make this product an excellent solutions for heavy duty applications.

- · 2 channel encoder (A / B) up to 4096 ppr
- $\cdot$  Power supply up to +28 VDC with several electronic 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 with star-ring
- · Wide operating temperature -20° ... +85°C (-4° ... +185°F)

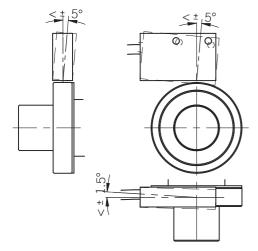




### **ETMR**



# **Mounting tolerances**



dimensions in mm

ELECTRICAL SPECIFICATIONS		
Resolution	from 64 to 4096 ppr (powers of 2)	
Power supply	5 = 4,5 5,5 V DC 5/28 = 4,75 29,4 V DC 8/24 = 7,6 25,2 V DC (reverse polarity protection)	
Power draw without load	800 mW max	
Max load current	20 mA / channel	
Output type*	push-pull / line driver	

Max output frequency 350 kHz

Linearity error ± 0,35° typical

Counting direction A leads B counterclockwise

Electromagnetic compatibility | IEC 61000-6-2 | IEC 61000-6-4

\*output levels according to power supply, for further details please see under Technical basics section

MECHANICAL SPECIFICATIONS			
Bore diameter	ø 9 / 9,52 (3/8") / 10 / 11 / 14 / 19 / 24 / 28 mm <b>En</b>		
closure 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 <sup>-6</sup> kgm² (27,29 x 10 <sup>-4</sup> lbft²)		
Sensor body material	anodized aluminum		
Magnet-actuator material	1.4305 / AISI 303 stainless steel		
Operating temperature	-20° +85°C (-4° +185°F)		
Storage temperature	-20° +85°C (-4° +185°F)		

100 g (3,53 oz)

 $\pm 1$  mm (axial)

 $\pm$  0.1 mm (radial)

#### **RESOLUTIONS**

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

Magnet-actuator

mounting tolerances

Weight

<sup>\*</sup> available with shaft ø 24 / 28 mm; please directly contact our offices for other pulses

CONNECTIONS		
Function	Cable output Push-pull	Cable output Line driver
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	/	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	/	white
÷	shield	shield