



## MAIN FEATURES

Contactless encoder with through hollow shaft up to 28 mm. The compact size (only  $11\ \mathrm{mm}$ 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 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)







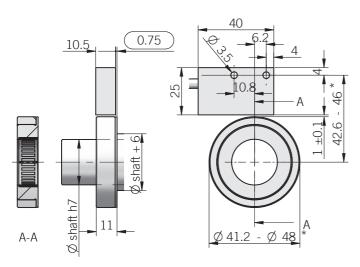


ORDERING CODE	ETM	R	4096	S	5	L	9	S	8	PR	. XXX
	SERIES magnetic incremental encoder series ETM through holl see table fo	RES	SOLUTION 4 to 4096 vailability								
		V	<b>ZER</b> vithout zer	O PULSE o pulse S							
	(with L or PC		electronic c interface	interface) ) 8 24 \							
					TRONIC IN						
					ted (AEIC- lin	7272) PC e driver L					
		þ	ower supp	ly 5/28 V	- output R		IAMETER				
						(3/8")	mm 9 mm 9,52 mm 10				
							mm 11 mm 14				
							mm 19 mm 24 mm 28				
						I	ENCLOSUR	E RATING IP 67 S			
							MA	X ROTATIO			
							radial cabl			UT TYPE ,5 m) PR	
											VARIANT



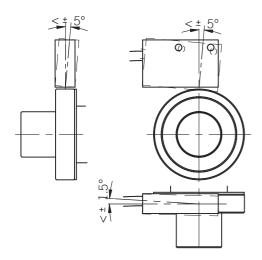
custom version XXX

## **ETMR**



\* 42,6 / 41,2 for shaft up to ø 19 mm 46 / 48 for shaft from ø 21 to ø 28 mm

## **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		
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-4		

<sup>\*</sup>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			
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 <sup>-6</sup> kgm <sup>2</sup>			
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)			
Weight	100 g (3,53 oz)			
Magnet actuator/ mounting tolerances	$\pm 1$ mm (axial) $\pm 0.1$ mm (radial)			

## **RESOLUTIONS**

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

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