





MAIN FEATURES

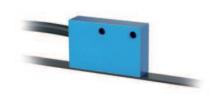
Incremental linear system based on magnetic principle without wear thanks to no-contact technology. Thanks to high IP rating ETMA is suitable for harsh environment applications such as marble and glass working machines, washing systems machines.

- · 0,01 mm max resolution (after quad eval)
- · Power supply up to +28 VDC with several electronic interfaces available
- · Up to 4 m/s travel speed
- · IP 67 as protection grade
- · Cable output, connector available on cable end





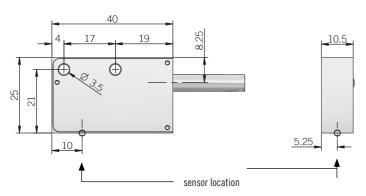




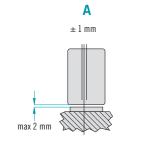
ORDERING CODE	ETMA	1 Z	5	P	S	PR3	. XXX	
	SERIES magnetic incremental linear sensor ETMA							
	RESOLUTIO 0,1 mm 0,04 mm	1						
	ZERO PULSE without zero pulse S with zero pulse Z							
	POWER SUPPLY (with L electronic interface) 5 V DC 5 (with L or PC electronic interface) 8 24 V DC 8/24 5 28 V DC 5/28							
	/AFI	ELEC	TRONIC IN	ITERFACE ish-pull P				
(AEIC-7272) protected push-pull PC line driver L power supply 5/28 V - output RS-422 RS								
ENCLOSURE RATING IP 67 S								
OUTPUT TYPE cable length 3 m PR3 preferred cable lenght 3 / 6 / 10 / 20 m, others on request								
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	custom version XX						rsion XXX	



ETMA 1 / 2

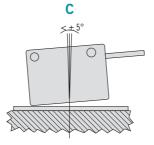


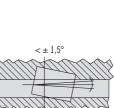
Mechanical tolerances





B

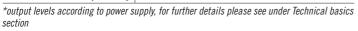




D

dimensions in mm

ELECTRICAL SPECIFICATIONS					
Resolution	ETMA1 = 0,1 mm (0,025 mm after quad eval) ETMA2 = 0,04 mm (0,01 mm after quad eval)				
Zero pulse	ETMA1 = every 5 mm ETMA2 = every 2 mm				
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)				
Current consumption without load	30 mA max				
Max load current	20 mA / channel				
Output type *	* push-pull line driver HTL / RS-422				
Linearity error	or $\pm 0,025 \text{ mm (ETMA 1)} \\ \pm 0,01 \text{ mm (ETMA 2)}$				
Travel speed	4 m/s				
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-4				



MECHANICAL SPECIFICATIONS				
Enclosure rating	IP 67 (IEC 60529)			
Shock	50 G, 11 ms (IEC 60068-2-27)			
Vibration	20 G, 10 2000 Hz (IEC 60068-2-6)			
Housing material	anodized aluminium			
Fixing	n. 2 holes ø 3,5 mm			
Operating temperature	-10° +60°C (+14° +140°F)			
Storage temperature	e -25° +70°C (-13° +158°F)			
Working distance from magnetic tape	ETMA $1 < 1,5 \text{mm}$ with magnetic tape protection ETMA $1 < 2 \text{mm}$ without cover ETMA $2 < 0,5 \text{mm}$ with magnetic tape protection ETMA $2 < 1 \text{mm}$ without cover			
Weight	150 g (5,29 oz)			



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				

