



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 V DC with several electrical interfaces available
- · Up to 4 m/s travel speed
- · IP 67 as protection grade
- · Cable output, connector available on cable end











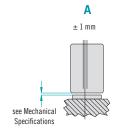
ORDERING CODE	ETMA	- 1	Z	5	L	S	PR3	. XXX
		SOLUTION 0,1 mm 1						
	0,	,04 mm 2 ZEI vithout zer	RO PULSE ro pulse S ro pulse Z					
	(wit	h L electrica	al interface) 5 28 \	R SUPPLY 5 V DC 5 / DC 5/28 Ctrical in				
	ŗ	oower supp	ply 5/28 V	pu Iin - output R	sh-pull P e driver L S-422 RS			
				ı	ENCLOSUR	IP 67 S		
	prefe	erred cable	lengths 6 /	10 / 20 m, t		OUTF able length after output		
						(custom ve	VARIANT rsion XXX





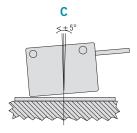
ETMA 1 / 2 40 10.5 21

Mechanical tolerances



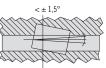


sensor location





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	$\mathbf{y} \begin{vmatrix} 5 = 4.5 \dots 5.5 \text{ V DC} \\ 5/28 = 4.5 \dots 30 \text{ V DC} \end{aligned}$ (reverse polarity protection)				
Current consumption without load					
Max load current	20 mA / channel				
Output type *	push-pull / line driver HTL (AEIC-7272) line driver RS-422 (AELT-5000 or equivalent)				
Linearity error	± 0,025 mm (ETMA 1) ± 0,01 mm (ETMA 2)				
Travel speed	4 m/s				
Electromagnetic compatibility according to 2014/30/EU directive					
RoHS	according to 2011/65/EU directive				
UL / CSA certificate n. E212495					



^{*} for further details please see OUTPUT LEVELS under TECHNICAL BASICS section

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	-20° +85°C (-4° +185°F)			
Storage temperature	-25° +70°C (-13° +158°F)			
Working distance from magnetic tape	ETMA $1 < 1,5$ mm with magnetic tape protection ETMA $1 < 2$ mm without cover ETMA $2 < 0,5$ mm with magnetic tape protection ETMA $2 < 1$ mm without cover			
Weight	150 g (5,29 oz)			

CONNECTIONS							
Function	Cable P	Cable L / RS					
+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					
<u></u>	shield	shield					

