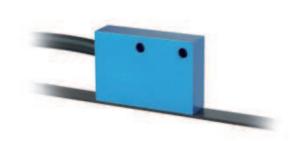


# ETMA 1 / 2

#### MAGNETIC INCREMENTAL LINEAR SENSOR



### **Specifications**

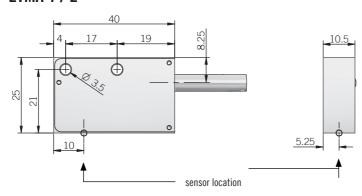
Incremental linear system based on magnetic principle without wear thanks to no-contact technology. Thanks to high IP rating ETMA is suitable for harsh environment applications such as marble and glass working machines, washing systems machines.

- · 0,01 mm max resolution (after quad eval)
- $\cdot$  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

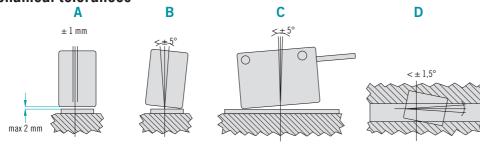
ORDERING CODE	ETMA	1	Z	5	P	S	PR3	. XXX
	SERIES magnetic incremental linear sensor ETMA							
	RES	<b>50LUTION</b> 0,1 mm 1						
		,04 mm 2	 Ro pulse					
	V	without ze	ro pulse S ro pulse Z					
	POWER SUPPLY (with L electronic interface) 5 V DC 5							
	(with L or PC electronic		e) 8 24 \					
				TRONIC IN	sh-pull P			
					e driver L			
	ţ	oower sup	ply 5/28 V	- output R I	S-422 RS Enclosur	E RATING		
							PUT TYPE	
cable length 3 m PR3 preferred cable length 3 / 6 / 10 / 20 m, others on request								
VA custom versi					VARIANT sion XXX			



#### ETMA 1 / 2

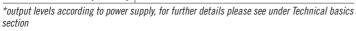


## **Mechanical tolerances**



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	$\pm$ 0,025 mm (ETMA 1) $\pm$ 0,01 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 < 1,5mm with magnetic tape protection ETMA 1 < 2mm without cover ETMA 2 < 0,5mm with magnetic tape protection ETMA 2 < 1mm 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		
<u></u>	shield	shield		