

MAIN FEATURES

Encoder for rack with automatic slack recovery. If compared to an incremental linear system, this type of encoder extremely simplifies linear measurements and overcomes measurement problems on long distance.

Encoder is sealed in a solid aluminium body and integrate a preloading system that allows automatic slack recovery between rack and pinion.

- · 3 channel encoder (A / B / Z) up to 2500 ppr
- · Power supply up to +28 V DC with several electrical interfaces available
- · Up to 220 kHz output frequency
- · Cable or connector output







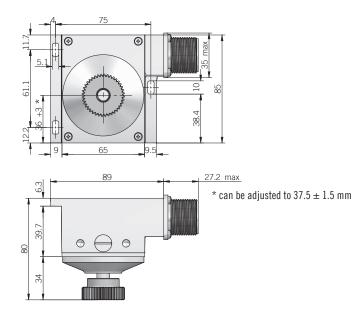


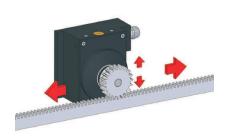


ORDERING CODE	EC	34A	500	S	8/24	P	10	P	. XXX
	SERIES								
	encoder for rack EC	MODEL							
	fla	inge 34A							
		RES	OLUTION						
	ana tabla	ppr 100 for pulses a) 2500						
	266 fanie	ioi puises a	-	RO PULSE					
		W	ithout zer	o pulse S					
			with zer	o pulse Z					
		(witl	n L electrica	PUWER (al interface	5 V DC 5				
		(DC 8/24				
					TRICAL IN				
				IN		ollector C sh-pull P			
				1 0/041/	lin	e driver L			
		ļ	oower sup	ply 8/24V -	- output R	S-422 RS	IAMETER		
						SHAFT D	mm 10		
								UT TYPE	
		prof	forred eable	longthe 2 /		cable (stain, to be add			
		prei	ciieu cabit	iciiguis 27	3/3/101	ii, to be addi		nector M	
		famale					C-5432 cor		
		temale co	onnector in	ciuaed, with	out temale	please add 1	162 as varia		VARIANT
							(custom ver	









for rack and cogged wheel please refer to Accessories section

dimensions in mm

MECHANICAL SPECIFICATIONS					
Shaft diameter	ø 10 mm				
Enclosure rating	IP 64 (IEC 60529)				
Max rotation speed	3000 rpm				
Max shaft load	200 N axial / radial				
Shock	50 G, 11 ms (IEC 60068-2-27)				
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)				
Starting torque (at +20°C / +68°F)	< 0,06 Nm (8,50 Ozin)				
Housing material	painted aluminum				
Shaft material	1.4305 / AISI 303 stainless steel				
Rack and cogged wheel material	steel				
Bearings	2 ball bearings				
Bearings life	10° revolutions				
Operating temperature	-20° +70°C (-4° +158°F)				
Storage temperature	-25° +70°C (-4° +158°F)				
Weight	700 g (24,69 oz)				

ELECTRICAL SPECIFICATIONS					
Resolution	from 100 to 2500 ppr				
Power supply	$ 5 = 4,5 \dots 5,5 \text{ V DC} $				
Current consumption without load	100 mA max				
Max load current	50 mA / channel 20 mA / channel (line driver)				
Output type*	NPN open collector (AEIC-7273, pull-up max +30 V DC) push-pull / line driver HTL (AEIC-7272) line driver RS-422 (AEIT-5000 or equivalent)				
Max output frequency	220 kHz				
Counting direction	A leads B clockwise (shaft view)				
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					

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RESOLUTIONS

100 - **200** - 300 - 360 - 400 - **500** - 512 - 600 - 720 - **1000** - 1024 - 1200 - 1440 - **2000** - 2048 - 2500

please directly contact our offices for other pulses, preferred resolutions in bold





CONNECTIONS								
Function	Cable C / P	Cable L / RS	7 pin J C / P	7 pin J L / RS no Zero	7 pin M C / P	7 pin M L / RS no Zero	10 pin J L / RS with Zero	10 pin M L / RS with Zero
+V DC	red	red	6	4	F	D	4 - 5	D - E
0 V	black	black	1	6	Α	F	6	F
Ch. A	green	green	3	1	С	Α	1	A
Ch. A-	/	brown	/	3	/	С	7	G
Ch. B	yellow	yellow	5	2	E	В	2	В
Ch. B-	/	orange	/	5	/	E	8	Н
Ch. Z	blue	blue	4	/	D	/	3	С
Ch. Z-	/	white	/	/	/	/	9	Ī
÷	shield	shield	7	7	G	G	10	J

J connector (7 pin) JIS-C-5432 Size 16 solder side view FV



M connector (7 pin) Amphenol MS3102-E-16-S solder side view FV



J connector (10 pin) JIS-C-5432 Size 16 solder side view FV



M connector (10 pin) Amphenol MS3102-E-18-1 solder side view FV



