

AAM 36 B **CANOPEN**

SOLID SHAFT MAGNETIC MULTITURN ABSOLUTE ENCODER

MAIN FEATURES

Industry standard multiturn absolute encoder for factory automation applications.

- · Magnetic sensor technology without contact (magnetic ASIC + Energy Harvesting)
- · Sturdy construction thanks to separated chambers
- · Power supply up to +32 VDC with CANopen interface
- · Cable or M12 connector axial output
- · 6 mm diameter solid shaft
- · Mounting by syncronous flange









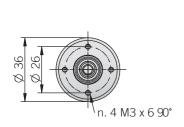
ORDERING CODE	AAM	36B	24	/ 14	В	10/30	CNP	6	X	X	M12A	. 162	+XXX
	SERIES												
magnetic multiturn absolute encoder	series AAM I	MODEL											
syncronous	flange ø 33												
	MULTITI	URN RESO	LUTION bit 24										
	5	SINGLETUR											
				bit 14									
				C	ODE TYPE binary B								
					POWE	R SUPPLY							
						DC 10/30 Ctrical in							
					LLL		open CNP						
							SHAFT [DIAMETER					
								mm 6 ENCLOSUR					
						IP67		/ IP 65 sh	aft side X				
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									10 00 1		PUT TYPE		
axial cable (standard length 2 m) PA2 5 pin M12 axial male connector M12A													
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				to bo v	arkad anl	ilth anns -t		~ M10A 100		g connect	or not inclu	ided .162	
				то пе гер	orteu only w	ith connect	or output (e	g. WI1ZA.162	i), iui matin	ig connector	See Access		VARIANT

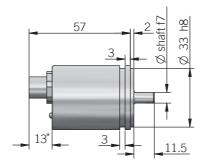






AAM 36B





recommended mating shaft tolerance H7 dimensions in mm

 \star with cable output + 7mm

	1 110	
ELECTRICAL SPECIFICA	TIONS	
Multiturn resolution	24 bit programmable during commissioning	
Singleturn resolution	14 bit programmable during commissioning	
Power supply ¹	+10 32 V DC (with reverse polarity protection)	
Power draw without load	0,5 W	
Electrical interface ²	CAN	
Protocol	CANopen Communication profile CiA 301 Encoder profile CiA 406 V3.2 class C2	
Node number	1 127 (default 127) programmable during commissioning	
Baud rate	10 kBaud 1 Mbaud with automatic bit rate detection	
LSS protocol	according to CiA 305	
CAN transmission modes	programmable (Synchronous and Asynchronous)	
LED error messages	according to CiA 303-3	
Code type	binary	
Position update rate	≤ 600 µs	
Start-up time	< 1,5 s	
Accuracy	± 0,35°	

RoHS	according to 2011/65/EU directive	
CONNECTIONS		
Function	5 pin M12	
+ V DC	2	
0 V	3	
CAN_H	4	
CAN_L	5	
CAN_GND (shield)	1	
<u></u>	shield connected to encoder housing	

according to 2014/30/EU directive

Electromagnetic

compatibility

MECHANICAL SPECIFICA	ATION	
Shaft diameter	ø 6 mm	
Enclosure rating IEC 60529	IP 67 cover side / IP65 shaft side	
Max rotation speed	12000 rpm	
Max shaft load ³	80 N radial / 50 N axial	
Shock	100 G, 6 ms (IEC 60068-2-27)	
Vibrations	30 G, 10 2000 Hz (IEC 60068-2-6)	
Starting torque (at +20°C / +68°F)	< 0,002 Nm (0,28 Ozin)	
Bearing stage material	aluminium	
Shaft material	stainless steel	
Housing material	chromium plated steel	
Bearings	2 ball bearings	
Bearings life	10° revolutions	
Operating temperature ^{4, 5}	-40° +85°C (-40° +185°F)	
Storage temperature ⁵	-40° +100°C (-40 +212°F)	
Weight	110 g (3,88 oz) approx	

¹ as measured at the transducer without cable influences ² for further details refer to TECHNICAL BASICS section

M12 connector(5 pin) M12 A coded solder side view FV



³ maximum load for static usage

⁴ measured on the transducer flange

⁵ condensation not allowed