

AAM 36 F

BLIND HOLLOW SHAFT 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
- · Axial M12 connector output
- · 10 mm blind hollow shaft
- · Mounting by stator coupling



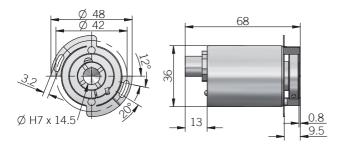
ORDERING CODE	AAM	36F	24	/ 14	В	10/30	CNP	10	Х	X	M12	A	. XXX
magnetic multiturn absolute enco	with stator coup MULTITU	JRN RESOL	bit 24	LUTION bit 14	DDE TYPE								
					binary B POWE	 R Supply							
				1	l0 30 V	DC 10/30							
					ELEU	CTRICAL IN CAN	open CNP						
								mm 10					
-								NCLOSUR					
						IP67	cover side	/ IP 65 sh	aft side X	DTIONS			
										PTIONS ported X			
										OUTP	UT TYPE		
									M12 5	pin conne	ctor M12	וחוו דעמי	
											DIKEGII	axial A	
													VARIANT
										W	ithout ma	iting conne	ector 162

ORDERING CODE					
Description	P/N				
AAM 36F 24 / 14 B 10/30 CNP 10 X X M12 A . 162	92560002				





AAM 36F



dimensions in mm

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°		
Electromagnetic compatibility	according to 2014/30/EU directive		
RoHS	according to 2015/863/EU directive		

CONNECTIONS				
Function	5 pin M12			
+ V DC	2			
0 V	3			
CAN_H	4			
CAN_L	5			
CAN_GND (shield)	1			
÷	shield connected to encoder housing			

MECHANICAL SPECIFICATION			
Bore diameter	ø 10 mm		
Enclosure rating IEC 60529	IP 67 cover side / IP65 shaft side		
Max rotation speed	6000 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 0zin)		
Bearing stage material	aluminium		
Shaft material	stainless stee		
Housing material	chromium plated steel		
Bearings	2 ball bearings		
Bearings life	10 ⁹ 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		

as measured at the transducer without cable influences

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







² for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

³ maximum load for static usage

⁴ measured on the transducer flange ⁵ condensation not allowed