

## **AAM 58 C**

## **SOLID 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
- · Power supply up to +32 VDC with CANopen interface
- · Radial M12 connector output
- · 10 mm solid shaft
- · Mounting by clamping flange









ORDERING CODE	AAM	58C	16	/ 16	В	10/30	CNP	10	S	X	M12	R	. 162
magnetic multiturn absolute encoder s	SERIES series AAM	MODEL											
clamping	flange ø 36												
	MULTITU	JRN RESOI	UTION bit 16										
	S	INGLETUR		LUTION									
				bit 16	I Ode type								
				0	binary B								
				1		R SUPPLY DC 10/30							
						CTRICAL IN	ITERFACE						
						CAN	open CNP	  IAMETER					
							SHAFIL	mm 10					
								NCLOSUR					
t									IP67 S	OPTIONS			
										eported X			
										OUTF	OUT TYPE		
									M12 5	pin conne		ON TVDE	
												radial R	
												V	ARIANTE
										V	vithout ma	iting conne	ctor 162

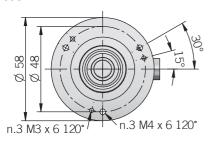
ORDERING CODE					
Description	P/N				
AAM 58C 16 / 16 B 10/30 CNP 10 S X M12 R . 162	92560001				

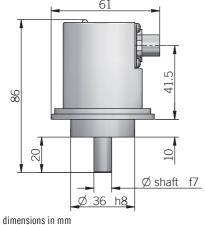




programmable during commissioning

**ELECTRICAL SPECIFICATIONS Multiturn resolution** 





		-		61		-	
98						41.5	
1	20					10	
			Ø 3	-  36	18_	Ø shaft	<u>f7</u>

	Singleturn resolution	16 bit programmable during commissioning				
	Power supply <sup>1</sup>	+10 32 V DC (with reverse polarity protection)				
	Power draw without load	0,5 W				
	Electrical interface <sup>2</sup>	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					

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



MECHANICAL SPECIFICATION					
Shaft diameter	ø 10 mm				
Enclosure rating IEC 60529	IP 67				
Max rotation speed	8000 rpm				
Max shaft load <sup>3</sup>	220 N radial / 120 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 <sup>9</sup> revolutions				
Operating temperature <sup>4, 5</sup>	5 -40° +85°C (-40° +185°F)				
Storage temperature <sup>5</sup>	<sup>5</sup> -40° +100°C (-40 +212°F)				
Weight 200 g (7,05 oz) approx					
as measured at the transducer without cable influences					

 $<sup>^{\</sup>rm 1}\,\text{as}$  measured at the transducer without cable influences



<sup>&</sup>lt;sup>2</sup> for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

<sup>&</sup>lt;sup>3</sup> maximum load for static usage

<sup>4</sup> measured on the transducer flange

<sup>&</sup>lt;sup>5</sup> condensation not allowed