

## AAM 58 B / C PROFINET

## **SOLID SHAFT MULTITURN ABSOLUTE ENCODER**

## MAIN FEATURES

Industry standard multiturn absolute encoder for factory automation applications.









- · Optical sensor technology (OptoASIC + gears)
- $\cdot$  25 bit total resolution (13 bit single turn + 12 bit multiturn )
- · Power supply up to +30 V DC with Profinet IO as electrical interface
- · Intelligent status leds
- · M12 connector for fast setup
- · Solid shaft diameter up to 10 mm
- · Mounting by synchronous or clamping flange
- · Operating temperature -40° ... +80°C (-40° ... +176°F)

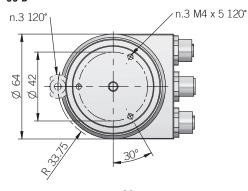


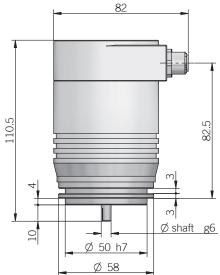
ORDERING CODE	AAM	58B	12	/ 13	В	10/30	PFN	6	X	Х	M12R	.162
	SERIES bsolute multiurn encoder AAM synchronous flange ø 50 clamping flange ø 36	MODEL mm 58B mm 58C TURN RES	SOLUTION bit 12	SSOLUTION bit 13	CODE TYPE binary B POWEI 10 30 V	R SUPPLY DC 10/30 CTRICAL IN	ITERFACE ET IO PFN SHAFT IC (mod. 58		E RATING IP 65 X			.162
										eported X		
									radial M	<b>OUT</b> 12 connec	PUT TYPE etor M12R	
									١	without ma	ating conn	VARIANT ector 162









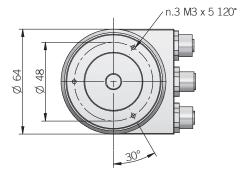


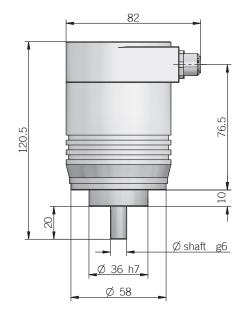
fixing clamps not included, please refer to Accessories

dimensions in mm

dimensions in mm				
ELECTRICAL SPECIFICAT	TIONS			
Multiturn resolution	1 12 bit programmabile during commissioning			
Singleturn resolution	1 13 bit programmabile during commissioning			
Power supply	10 30 V DC (with reverse polarity protection)			
Current consumption without load	< 200 mA			
Electrical interface	PROFINET IO RT Class 1 / Conformance Class B			
Encoder profile	V 4.1 - Application Class 3			
Hardware features	Ertec 200 auto-negotiation auto-polarity auto-crossover diagnostic LEDs			
Code type	binary			
Max bus frequency	100 Mbit/s			
Cycle time	≤ 1 ms			
Accuracy	± 0,04°			
Start-up time	500 ms			
Electromagnetic compatibility	according to 2014/30/EU directive			
RoHs	according to 2011/65/EU directive			







MECHANICAL SPECIFICA	ATTONS
	d C mm

Solid shaft diameter	ø 6 mm (mod. 58B) ø 10 mm (mod. 58C)		
Enclousure rating	IP 65 (IEC 60529)		
Max rotation speed	6000 rpm		
Max shaft load	80 N radial / 40 N axial		
Starting torque (at +20°C / 68°F)	< 0,05 Nm		
Moment of inertia	<b>a</b> approx 1,8 x 10 <sup>-6</sup> kgm <sup>2</sup>		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibrations	10 G, 10 2000 Hz (IEC 60068-2-6)		
Bearings life	10 <sup>9</sup> revolutions		
Bearings	n° 2 ball bearings		
Shaft material	1.4305 / AISI 303 stainless steel		
Body / cover material	EN-AW 2011 aluminium		
Housing material	painted aluminium		
Operating temperature	-40° +80°C (-40° +176°F)		
Storage temperature	-40° +85°C (-40° +185°F)		
Weight	600 g (21 oz)		





CONNECTIONS					
	Pin	Function			
PORT 1 Connector	1	Tx D+			
	2	Rx D+			
	3	Tx D-			
	4	Rx D-			
POWER connector	1	+V DC			
	2	1			
	3	0 V			
	4	/			
PORT 2 Connector	1	Tx D+			
	2	Rx D+			
	3	Tx D-			
	4	Rx D-			



PORT 1 / 2 connector M12 D-coded (4-pin) (front view)

1 2
4 3

POWER connector M12 A-coded (front view)

4 3
1 2

female connectors not included, please refer to Accessories section