

AAM 58 B / C PROFINET SOLID SHAFT MULTITURN ABSOLUTE ENCODER

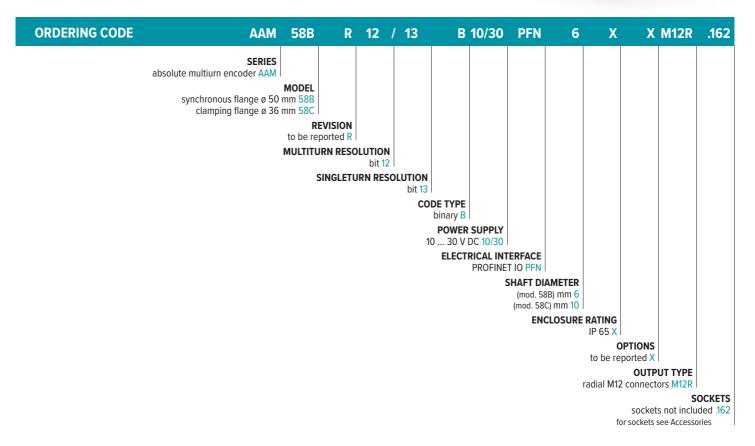




MAIN FEATURES

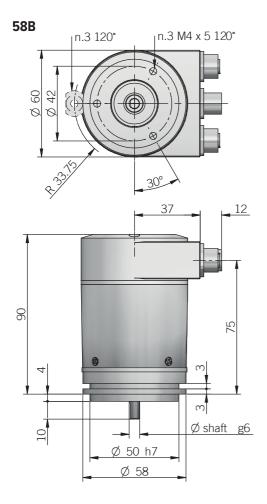
Industry standard multiturn absolute encoders for factory automation applications.

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





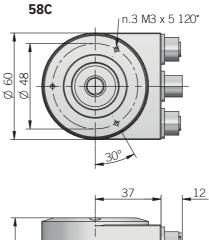
OPTICAL MULTITURN ABSOLUTE ENCODERS | AAM 58 B / C PROFINET

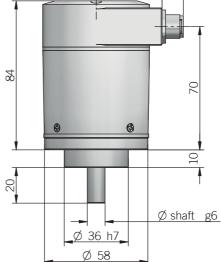


fixing clamps not included, please refer to Accessories recommended mating shaft tolerance H7 dimensions in mm

ELECTRICAL SPECIFICATIONS

ELECTRICAL SPECIFICA	ELECTRICAL SPECIFICATIONS		
Multiturn resolution	1 12 bit programmabile during commissioning		
Singleturn resolution	1 13 bit programmabile during commissioning		
Power supply ¹	10 30 V DC (reverse polarity protection)		
Current consumption wi- thout load	< 200 mA		
Electrical interface ²	PROFINET IO RT Class 1 / Conformance Class B		
Hardware features	Ertec 200P auto-negotiation auto-polarity auto-crossover diagnostic LEDs		
Code type	binary		
Max bus frequency	100 Mbit/s		
Cycle time	≤1ms		
Accuracy	± 0,04°		
Start-up time	500 ms		
Mean time to dangerous failure (MTTF _d) ³ according to EN ISO 13849-1	121 years		
Mission time (Tm) ³	20 years		
Diagnostic coverage (DC) ³	0%		
Electromagnetic compatibility	according to 2014/30/EU directive		
RoHs	according to 2011/65/EU directive		





MECHANICAL SPECIFICATIONS

MECHANICAL SPECIFIC	ATIONS		
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 ³	80 N (17,98 lbs) radial / 40 N (9 lbs) axial		
Starting torque (at +20°C / +68°F)	< 0,05 Nm (7 Ozin)		
Moment of inertia	approx 1,8 x 10 ⁻⁶ kgm ²		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibrations	10 G, 10 2000 Hz (IEC 60068-2-6)		
Bearings life	10 ⁹ revolutions		
Bearings	n.2 ball bearings		
Shaft material	stainless steel		
Bearing stage / cover material	aluminium		
Housing material	painted aluminium		
Operating temperature ^{4, 5}	-40° +80°C (-40° +176°F)		
Storage temperature⁵	-40° +85°C (-40° +185°F)		
Weight	600 g (21 oz)		
¹ as measured at the transducer withou ² for further details refer to OUTPUT LEVE ³ maximum load for static usage			

³ maximum load for static usage

⁴ measured on the transducer flange

5 condensation not allowed



OPTICAL MULTITURN ABSOLUTE ENCODERS | AAM 58 B / C PROFINET

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



PORT 1 POWER PORT 2

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



socket connectors not included, please refer to Accessories

