EAM 58 F - 63 F / G PROFIBUS

BLIND HOLLOW SHAFT MULTITURN ABSOLUTE ENCODER



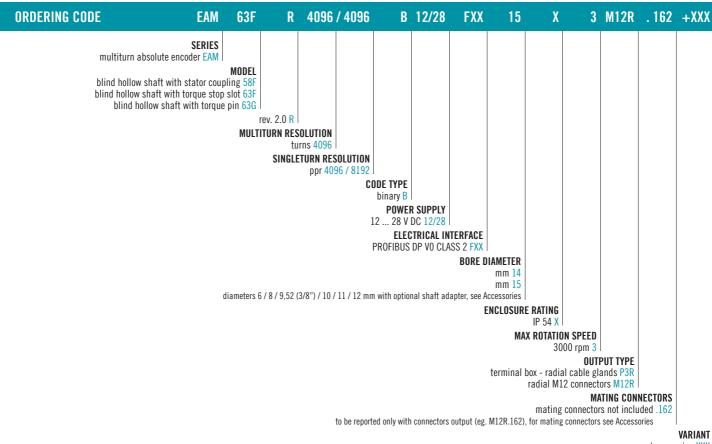
CE c us



MAIN FEATURES

Industry standard multiturn absolute encoder for factory automation applications.

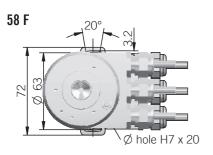
- Optical sensor technology (OptoASIC + gears)
- · 25 bit total resolution (13 bit single turn (8192 ppr) + 12 bit multiturn (4096 turns))
- Power supply up to +28 V DC with Profibus DP as electrical interface
- · Intelligent status leds
- · Terminal box or M12 connector for fast setup
- Blind hollow shaft up to 15 mm diameter .
- · Mounting by stator coupling, torque stop slot or torque pin

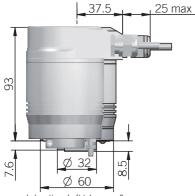


custom version XXX



OPTICAL MULTITURN ABSOLUTE ENCODERS | EAM 58 F - 63 F / G PROFIBUS





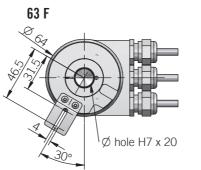
recommended mating shaft tolerance g6 dimensions in mm

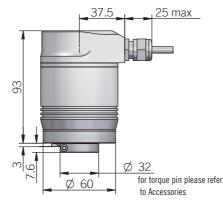
ELECTRICAL SPECIFICATIONS

Multiturn resolution	1 4096 turns programmable during commissioning		
Singleturn resolution	2 4096 / 2 8192 ppr programmable during commissioning		
Power supply ¹	11,4 29,4 V DC		
Current consumption without load	300 mA		
Electrical interface ²	RS 485 galvanically isolated		
Max bus frequency	12 Mbaud		
Diagnostic features	frequency warning position warning / alarm please refer to installation manual for more informations		
Max frequency	max 25 kHz LSB		
Code type	binary		
Counting direction	programmable during commissioning		
Start-up time	500 ms		
Accuracy	± 1/2 LSB		
Electromagnetic compatibility	according to 2014/30/EU directive		
RoHS	according to 2011/65/EU directive		
UL / CSA	certificate n. E212495		

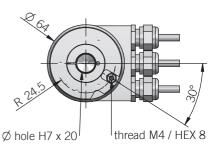
CONNECTIONS

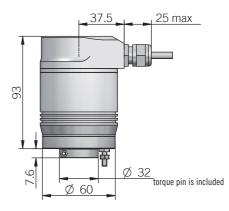
Function	POWER	BUS OUT	BUS IN
+ V DC	2		
0 V	4		
А		2	
В		4	
A			2
В			4





63 G





MECHANICAL SPECIFICATIONS

Bore diameter	Ø 14 / 15 mm Ø 6* / 8* / 9,52 (3/8")* / 10* / 11* / 12 mm * with optional shaft adapter, please refer to Accessories		
Enclosure rating	IP 54 (IEC 60529)		
Max rotation speed	3000 rpm		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)		
Moment of inertia	5 x 10 ⁻⁶ kgm ² (119 x 10 ⁻⁶ lbft ²)		
Starting torque (at +20°C / +68°F)	< 0,02 Nm (2,83 Ozin)		
Bearing stage material	EN-AW 2011 aluminum		
Shaft material	1.4305 / AISI 303 stainless steel		
Shaft adapter material	CuSn12 / CC483K bronze		
Housing material	painted aluminium		
Bearings	n.2 ball bearings		
Bearings life	10 ⁹ revolutions		
Operating temperature ^{3, 4}	0° +60°C (+32° +140°F)		
Storage temperature ⁴	-15° +70°C (+5° +158°F)		
Fixing torque for collar clamping	1,5 Nm (212 Ozin) recommended		
Weight	650 g (22,93 oz)		
¹ as measured at the transducer without ² for further details refer to OUTPUT LEVELS ³ measured on the transducer flange ⁴ condensation not allowed			
M12 A coded	S OUT - female (5 pin) M12 B coded solder side view FV Solder side view MV		



BUS IN - male (5 p	in)
M12 B coded	
solder side view N	۱V



© Copyright 2021 Eltra S.p.a. Unipersonale. All rights reserved. All informations in this catalog are subject to change without notice. Eltra takes no responsibility for typographic errors. For the terms of sales please check the website. REV. 210527

3



-2020