

EA 58 F - 63 F / G **PROFIBUS**

BLIND HOLLOW SHAFT SINGLETURN ABSOLUTE ENCODER

MAIN FEATURES

Industry standard singleturn absolute encoder for factory automation applications.

- · Optical sensor technology (OptoASIC)
- · Resolution up to 13 bit (8192 ppr)
- · Power supply up to +28 V DC with Profibus DP as electrical interface
- · Cable gland or M12 connector output
- Blind hollow shaft diameter up to 15 mm
- · Mounting by stator coupling, torque stop slot or torque pin









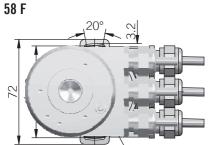
ORDERING CODE	EA 5	58F -	4096	В	12/28	FXX	10	X	3	P3R	. XXX
	blind hollow shaft with stator coupling blind hollow shaft with torque stop slot blind hollow shaft with torque pin (63F 63G RESOI	LUTION								
			CO	DE TYPE							
					R SUPPLY DC 12/28						
			F		TRICAL IN						
				NOT IDOO	DI 10 0L		IAMETER				
						(3/8") 9.	mm 8 .52 mm 9				
						, , . ,	mm 10				
							mm 12 mm 14				
							mm 15				
						E	NCLOSURI	IP 54 X			
							MA	X ROTATIO	N SPEED 00 rpm 3		
							1		OUTP	UT TYPE	
							terminal b		i cable gla 2 connecto		
		mating	g connecto	ors included	l, without m	ating conne	ectors please			de	
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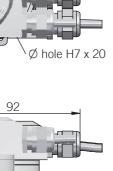
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custom version XXX

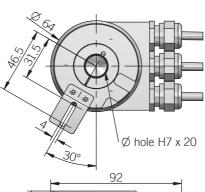




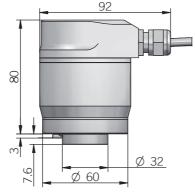


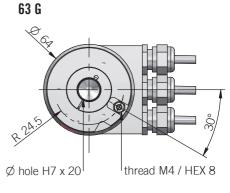


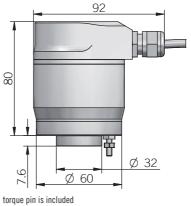
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63 F







for torque pin please refer to Accessories

d	ıme	ensions	ın	mm	

ELECTRICAL SPECIFICATIONS					
Resolution	2 4096 / 2 8192 ppr				
Resolution	nrogrammable during commissioni				

Ø 32

60

	programmable during commissioning
Power supply ¹	11,4 29,4 V DC (reverse polarity protection)
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

CONNECTIONS					
Function	POWER	LINE OUT	LINE IN		
+ V DC	2				
0 V	4				
Α		2			
В		4			
Α			2		
В			4		

UL / CSA certificate n. E212495

RoHS | according to 2015/863/EU directive

MECHANICAL SPECIFICA	TIONS

Bore diameter	ø 8* / 9,52 (3/8")* / 10* / 12* / 14 / 15 mm * with supplied shaft adapter	
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	
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)	

as measured at the transducer without cable influences

M12 A coded view solder side FV



POWER connector (5 pin) LINE OUT - female (5 pin) M12 B coded solder side view FV



LINE IN - male (5 pin) M12 B coded solder side view MV







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

³ measured on the transducer flange

⁴ condensation not allowed