

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 VDC with Profibus DP as electronic interface
- · Cable gland or M12 connector output
- · Blind hollow shaft diameter up to 15 mm
- · Mounting by stator coupling, spring or anti-rotation pin







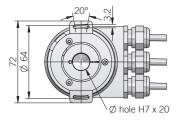


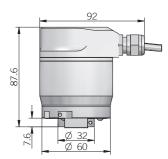
ORDERING CODE	EA	58F	4096	В	12/28	FXX	10	X	3	P3R	. XXX
singleturn absolu	SERIES										
		MODEL									
blind hollow shaft blind hollo	with stator coup ow shaft with sp	ling 58F ring 63F									
blind hollow shaft w	rith anti-rotation	pin 63G	OLUTION								
	pp		96 / 8192								
				DE TYPE binary B							
				POWER	RSUPPLY						
			1		DC 12/28 Tronic in	TERFACE					
			F		DP V0 CLA	ISS 2 FXX					
							IAMETER mm 8				
					(9	,52mm 3/	8") mm 9 mm 10				
							mm 12 mm 14				
							mm 15				
						ı	NCLOSUR	E RATING IP 54 X			
							MA	X ROTATIO 30	ON SPEED 100 rpm 3		
							torminal.	hov radia		PUT TYPE	
								radial M1	al cable gla .2 connecto	ors M12R	
			temale c	onnector i	ncluded, w	rithout fen	nale please	e add 162	as variant		VARIANT

custom version XXX



EA 58 F





dimensions in mm

ELECTRICAL SPECIFICATIONS

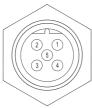
Resolution	2 4096 / 2 8192 ppr	
	programmable during commissioning	
Power supply	12/28 = 11,4 29,4 V DC	
Current consumption without load		
Output type	RS 485 galvanically isolated	
Max bus frequency	12 Mbaud	
Diagnostic features	frequency warning	
	position warning / alarm	
	please refer to installation guide for more informations	
Max frequency	25 kHz LSB	
Accuracy	± 1/2 LSB	
Counting direction	programmable during commissioning	
Start-up time	e 500 ms	
Electromagnetic	c IEC 61000-6-2	
compatibility	IEC 61000-6-4	

CONNECTIONS			
Function	S3 connector 5-pin (power supply)	S3 connector 5-pin (line out)	S3 connector 5-pin (line in)
+ Vdc	2		
0 Volt	4		
signal A (out)		2	
signal B (out)		4	
signal A (in)			2
signal A (in)			4

S3 connector (M12 5 pins A coded) power supply view solder side FV



S3 connector (M12 5 pins B coded) line out view solder side FV

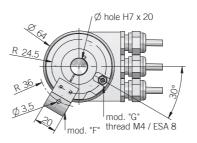


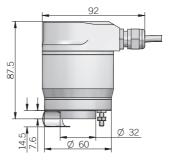


S3 connector (M12 5 pins B coded)

line in

EA 63 F - G





anti-rotation pin is included in model G, for mounting instruction please refer to product installation notes

MECHANICAL SPECIFICATIONS

Bore diameter	ø8*/9*/10*/12*/14/15 mm	
Enclosure rating	IP 54 (IEC 60529)	
Max rotation speed	3000 rpm continuous	
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	
Starting torque (at +20°C / +68°F)	< 0,02 Nm	
Body material	EN-AW 2011 aluminum	
Shaft material	1.4305 / AISI 303 stainless steel	
Housing material	painted aluminium	
Flange material	EN-AW 2011 aluminum	
Bearings	2 ball bearings	
Bearings life	10° revolutions	
Operating temperature	0° +60°C (+32° +140°F)	
Storage temperature	-15° +70°C (+5° +158°F)	
Fixing torque for collar clamping	1,5 Nm recommended	
Weight	650 g (22,93 oz)	

^{*} with supplied adapter shaft

