

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, spring or torque pin









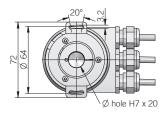


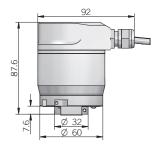
ORDERING CODE	EA	58F	4096	В	12/28	FXX	10	X	3	P3R	. XXX
oi:	SERIES										
SII	gleturn absolute encoder EA	MODEL									
bline	I hollow shaft with stator coup	ling 58F									
	blind hollow shaft with sp blind hollow shaft with torque	pin 63G									
			OLUTION 96 / 8192								
		ppi 403		DE TYPE							
				binary B							
			1		R SUPPLY DC 12/28						
					TRICAL IN						
			l	PKUFIBUS	DP VU GLA		IAMETER				
							mm 8				
						(3/8") 9	52 mm 9, mm 10				
							mm 12				
							mm 14 mm 15				
							NCLOSUR	E RATING			
							МА	IP 54 X X rotati o	N CDEED		
							IIIA		00 rpm 3		
							Annual call			PUT TYPE	
							terminal	radial M radial M	il cable gla 12 connec	tor M12R	
			fe	male conne	ctor include	d, without f	emale pleas				
									(custom ve	VARIANT rsion XXX





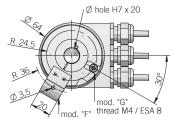
58 F

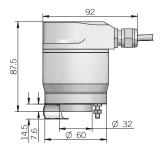




dimensions in mm

63 F - G





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

ELECTRICAL SPECIFICATIONS

Resolution	2 4096 / 2 8192 ppr			
	programmable during commissioning			
Power supply	11,4 29,4 V DC			
r ower suppry	11,4 23,4 ¥ 00			
Current consumption without load	300 mA			
Output type	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			
Accuracy	± 1/2 LSB			
Counting direction	programmable during commissioning			
Start-up time	500 ms			
Electromagnetic compatibility	according to 2014/30/EU directive			
RoHS	according to 2011/65/EU directive			
UL / CSA	certificate n. E212495			

CONNECTIONS

Function	Pin M12A male	Pin M12B female	Pin M12B male
+ V DC	2		
0 V	4		
signal A (out)		2	
signal B (out)		4	
signal A (in)			2
signal B (in)			4

MECHANICAL	SPECI	FIC.	Ш	01	IS	
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MEGHATIONE OF EATH TOATTONS				
Bore diameter	ø 8* / 9,52 (3/8")* / 10* / 12* / 14 / 15 mm * with supplied adapter shaft			
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	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 (212 Ozin) recommended			
Weight	650 g (22,93 oz)			

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



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



S3 connector (M12 5 pins B coded) line in - male view solder side MV





