

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

BLIND HOLLOW SHAFT MULTITURN ABSOLUTE ENCODER

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







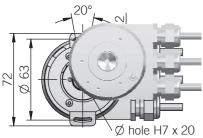


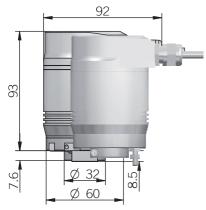
ORDERING CODE	EAM	63F	R	4096	/ 4096	В	12/28	FXX	8	X	3	P3R	. XXX
ORDERING CODE	SERIES multiturn absolute encoder EAM blind hollow shaft with stator cou blind hollow shaft with torque stor blind hollow shaft with torque	MODEL pling 58F o slot 63F e pin 63G	rev. 2.0 R I TURN RES tu	SOLUTION rns 4096 ETURN RES	COLUTION 96 / 8192 CO	DDE TYPE binary B POWE 12 28 V ELEC		ITERFACE ISS 2 FXX BORE D (3/8") 9	IAMETER mm 8 .52 mm 9 mm 10 mm 12 mm 14 mm 15 ENCLOSUR	E RATING IP 54 X	DN SPEED 100 rpm 3		. XXX
				mat	ing connect	ors include	d, without m	nating conn		box - radia radial M1		ors M12R ide	
													VARIANT

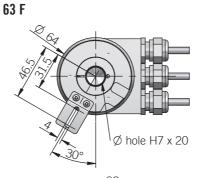
custom version XXX

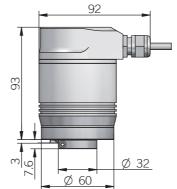
63 G



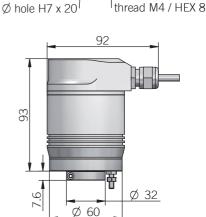








for torque pin please refer to Accessories



torque pin is included

dimensions in mm

ELECTRI	CAL SE	PECIF	ICATIO	DNS

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 2015/863/EU directive			
UL / CSA	certificate n. E212495			

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

MECHANICAL SPECIFICATIONS					
Bore diameter	ø $8*/9*/10*/12*/14/15$ 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)				

¹ as measured at the transducer without cable influences

view solder side FV



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



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