

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





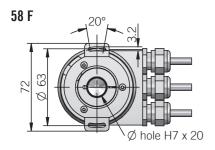


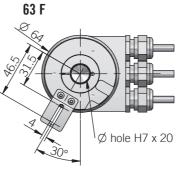


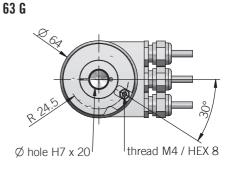
ORDERING CODE	EAM	63F	R	4096	/ 4096	В	12/28	FXX	15	X	3	M12R	. 162	+XXX
multiturn absolu blind hollow shaf blind hollow shaft blind hollow	t with stator coup	slot 63F pin 63G												
			ev. 2.0 R Turn res											
			tu	rns 4096										
			SINGLE	TURN RES	SOLUTION 96 / 8192									
				FF		DE TYPE								
						binary B	 R Supply							
					1	2 28 V	DC 12/28							
							CTRICAL IN DP VO CLA							
						11011200	D1 10 0L1		IAMETER					
									mm 14 mm 15					
	(diameters 6	/8/9,52(3/8") / 10 /	11 / 12 mm	with optio	nal shaft ad		Accessories					
								ı	ENCLOSUR	E RATING IP 54 X				
									MA	X ROTATIO	ON SPEED			
										30	000 rpm 3	I Put type		
									terminal		al cable gl	ands P3R		
										radiai MJ		ors M12R Ating con	NECTORS	
								,	14100 100		connector	s not inclu	ided .162	
					to be report	ea only with	onnectors	output (eg.	. W12R.162)	, tor mating	g connectors	see Access	ories	

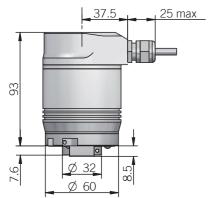
VARIANT custom version XXX

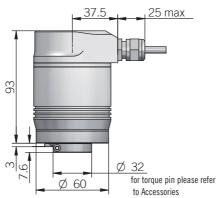


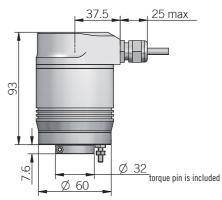












recommended mating shaft tolerance g6 dimensions in mm

ELECTRICAL SPECIFICAT	TIONS			
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	
А			2
В			4

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	109 revolutions			
Operating temperature ^{3, 4}	0° +60°C (+32° +140°F)			
Storage temperature⁴	-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
- ² for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section
- ³ measured on the transducer flange
- ⁴ condensation not allowed

view solder side FV



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



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





