

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



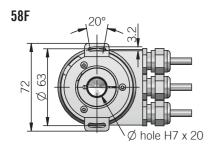


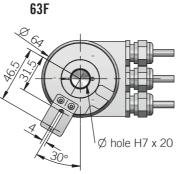
ORDERING CODE	EAM	63F	R	4096	/ 4096	В	12/28	FXX	15	X	3	M12R	. 162	+XXX
multiturn absolu blind hollow shaf blind hollow shaft	SERIES ute encoder EAM it with stator coupl t with torque stop of the state of the	MODEL ling 58F slot 63F pin 63G	ev. 2.0 R Turn res tu Single	GOLUTION Irns 4096 ETURN RES ppr 409	OLUTION 06 / 8192 CO	DDE TYPE binary B POWE 2 28 V ELEC PROFIBUS		ITERFACE ASS 2 FXX BORE D	DIAMETER mm 14 mm 15 Accessories ENCLOSUR	E RATING IP 54 X IX ROTATIO	DN SPEED 100 rpm 3		. 162	+XXX
OUTPUT TYPE terminal box - radial cable glands P3R														
radial M12 connectors M12R SOCKETS														
sockets not included .162 to be reported only with connectors output (eg. M12R.162), for sockets see Accessories														
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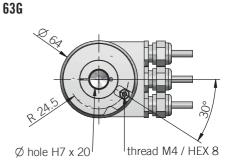
VARIANT

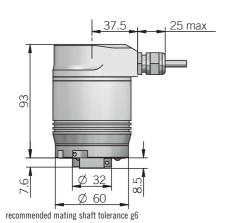
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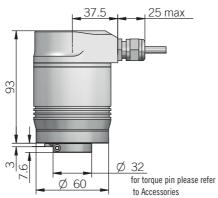


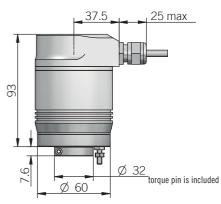












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Multiturn resolution	2 4096 turns				
	programmable during commissioning				
Singleturn resolution	2 4096 / 2 8192 ppr				
	programmable during commissioning				
Power supply ¹	11,4 29,4 V DC (reverse polarity protection)				
Current consumption without load	300 mA				
Electrical interface ²	RS 485 galvanically isolated				
Max bus frequency	12 Mbaud				
	frequency warning				
Diagnostic features	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				
Mean time to dangerous					
failure (MTTF _d) ³	years				
according to EN ISO 13849-1					
Mission time (Tm) ³	20 years				
Diagnostic coverage (DC) ³	0%				
Electromagnetic compatibility	according to 2014/30/EU directive				
RoHS	according to 2011/65/EU directive				
UL / CSA	file n. E212495				

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Bore diameter	Ø 14 / 15 mm Ø 6* / 8* / 9,52 (3/8")* / 10* / 11* / 12* * 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	aluminum				
Shaft material	stainless steel				
Shaft adapter material	bronze				
Housing material	painted aluminium				
Bearings	n.2 ball bearings				
Bearings life	109 revolutions				
Operating temperature ^{4, 5}	0° +60°C (+32° +140°F)				
Storage temperature ⁵	-15° +70°C (+5° +158°F)				
Weight	650 g (22,93 oz)				
I as massured at the transduser without	anhla influences				

 $^{^{\}rm 1}\,\text{as}$ measured at the transducer without cable influences

⁵ condensation not allowed

CONNECTIONS			
Function	POWER	BUS OUT	BUS IN
+ V DC	2		
0 V	4		
A		2	
В		4	
A			2
В			4





BUS OUT - socket (5 pin) M12 B coded front view



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







 $^{^{\}rm 2}$ for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

³ this product is not a safety component, for further details refer to TECHNICAL BASICS section

⁴ measured on the transducer flange