

EA 58 B / C - 63 A / D / E PROFIBUS

SOLID 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)
- \cdot Power supply up to +28 V DC with Profibus DP as electrical interface
- · Cable gland or M12 connector output
- · Solid shaft diameter up to 10 mm
- · Mounting by synchronous, clamping or centering 2,5" square flange











ORDERING CODE	EA	63A	4096	В	12/28	FXX	10	X	6	P3R	. XXX
ORDERING CODE	SERIES singleturn absolute encoder EA synchronous flange ø 31.75 synchronous flange ø 36 clamping flange ø 36 centering square flange ø 36 centering square flange ø 50	MODEL 5 mm 63A 9 mm 58B 6 mm 58C 6 mm 63D 9 mm 63E RES	OLUTION 06 / 8192 Co	DDE TYPE binary B POWEI 2 28 V ELEC PROFIBUS	R SUPPLY DC 12/28 STRICAL IN DP VO CLA	ITERFACE SSS 2 FXX SHAFT IC (mod. 58 (9,52mm 3),	DIAMETER B B) mm 6 8°") mm 9 E) mm 10 ENCLOSUR	E RATING IP 54 X IP 66 S IX ROTATIO (IP 66) 30 (IP 54) 60	I N SPEED 00 rpm 3 00 rpm 6	PUT TYPE	. XXX
			fe	male conne	ctor include	d, without f		radial M	12 connects variant co	tor M12R de	
									(VARIANT rsion XXX

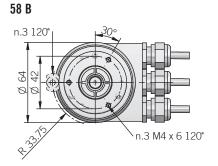


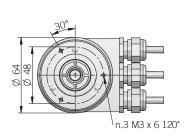


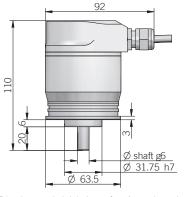
OPTICAL SINGLETURN ABSOLUTE ENCODERS | EA 58 B / C - 63 A / D / E PROFIBUS

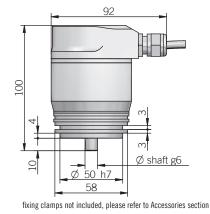
58 C

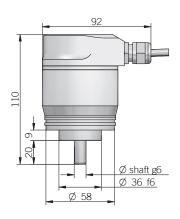
63 A n.3 120° n.3 M5 x 7 120°





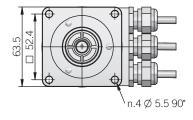




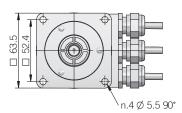


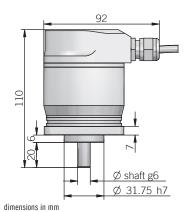
fixing clamps not included, please refer to Accessories section

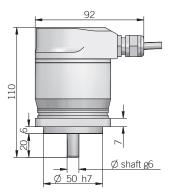
63 D













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ELECTRICAL SPECIFICATIONS			
Resolution	2 4096 / 2 8192 ppr programmable during commissioning		
Power supply	11,4 29,4 V DC		
Current consumption without load	300 mA		
Output type	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 SPECIFICATIONS			
Shaft diameter	ø 6 / 9,52 (3/8") / 10 mm		
Enclosure rating	X = IP 54 (IEC 60529) S = IP 66 (IEC 60529)		
Max rotation speed	IP 54 - 6000 rpm IP 66 - 3000 rpm		
Max shaft load	10 N axial / 20 N radial with ø6 shaft 100 N axial / radial		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)		
Moment of inertia	1,5 x 10 ⁻⁶ kgm ² (36 x 10 ⁻⁶ lbft ²)		
Starting torque (at +20°C / +68°F)	< 0,02 Nm (2,83 Ozin) IP 54 < 0,06 Nm (8,50 Ozin) IP 66		
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	109 revolutions		
Operating temperature	0° +60°C (+32° +140°F)		
Storage temperature	-15° +70°C (+5° +158°F)		
Weight	650 g (22,93 oz)		

S3 connector (M12 5 pins A coded) power supply - male 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



