

AA 58 F

BLIND HOLLOW SHAFT SINGLETURN ABSOLUTE ENCOD

MAIN FEATURES

Industry standard singleturn absolute encoder for factory automation applications.

- · Magnetic sensor technology without contact (magnetic ASIC)
- · Sturdy construction
- · Power supply up to +32 VDC with CANopen interface
- · Two axial M12 connector output (isolated output)
- · 15 mm blind hollow shaft
- · Mounting by stator coupling











ORDERING CODE	AA	58F	16	В	10/30	CNP	15	X	X	M12	A	. XXX
	SERIES											
	magnetic singleturn absolute encoder series AA	MODEL										
	blind hollow shaft with stator coup											
	SINGLE	TURN RES	SOLUTION									
			bit 16	DE TYPE								
			U	binary B								
				POWE	R SUPPLY							
			1		DC 10/30							
				ELEU	CTRICAL IN CAN	open CNP						
					•		IAMETER					
							mm 15					
					IP67	E cover side	INCLOSUR					
					11 07	cover side	/ 11 05 3116		OPTIONS			
									eported X			
								2 v M12 E		PUT TYPE		
		m	ating conne	ctors includ	ded, without	mating con		2 x M12 5 ase add 162				
					,	3					ON TYPE	
											axial A	
												VARIAN1

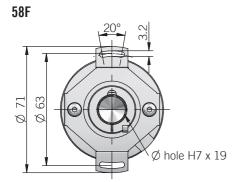
ORDERING CODE					
Description	P/N				
AA 58F 16 B 10/30 CNP 15 X X M12 A.162	92090001				

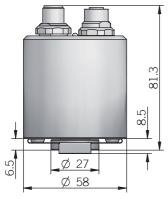




without mating connectors 162

PRELIMINARY





dimensions in mm

CONNECTIONS		
Function	5 pin female M12	5 pin male M12
+ V DC	2	2
0 V	3	3
CAN_H	4	4
CAN_L	5	5
CAN_GND (shield)	1	1
÷	shield connected to encoder housing	shield connected to encoder housing

M12 connector (5 pin) M12 A coded - female solder side view FV



M12 connector (5 pin) M12 A coded - male solder side view MV



ELECTRICAL SPECIFICATIONS Singleturn resolution programmable during commissioning $+10 \dots 32 \ V \ DC$ (with reverse polarity protection) Power supply¹ Power draw without load max 1 W Electrical interface2 CAN galvanically isolated CANopen Communication profile CiA 301 Encoder profile CiA 406 V3.2 class C Protocol 1 ... 127 (default 127) Node number programmable during commissioning 10 kBaud ... 1 Mbaud **Baud rate** with automatic bit rate detection LSS protocol according to CiA 305 programmable (Synchronous and Asynchronous) **CAN transmission modes** LED error messages according to CiA 303-3 Code type binary Position update rate ≤ 600 µs < 1.5 sStart-up time Accuracy $\pm 0.35^{\circ}$ Electromagnetic according to 2014/30/EU directive compatibility

MECHANICAL SPECIFICATION			
Bore diameter	ø 15 mm		
Enclosure rating IEC 60529			
Max rotation speed	6000 rpm		
Max shaft load ³	80 N radial / 50 N axial		
Shock	100 G, 6 ms (IEC 60068-2-27)		
Vibrations	5 G, 10 2000 Hz (IEC 60068-2-6)		
Starting torque (at +20°C / +68°F)			
Bearing stage material	aluminium		
Shaft material	stainless steel		
Housing material	chromium plated steel		
Bearings	2 ball bearings		
Bearings life	s life 109 revolutions		
Operating temperature ^{4, 5}	-40° +85°C (-40° +185°F)		
Storage temperature ⁵	ure ⁵ -40° +100°C (-40 +212°F)		
Weight	410 g (14,11 oz) approx		

RoHS | according to 2015/863/EU directive



 $^{^{\}rm I}$ as measured at the transducer without cable influences

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

³ maximum load for static usage

⁴ measured on the transducer flange

⁵ condensation not allowed