

MAIN FEATURES

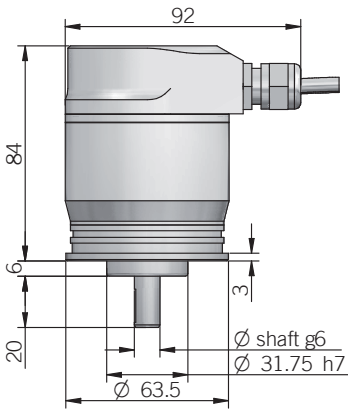
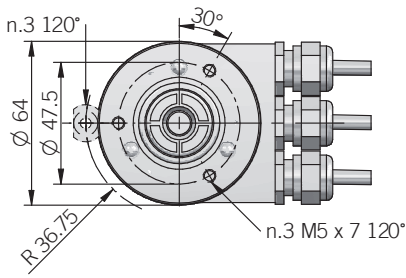
Industry standard singleturn absolute encoder for factory automation applications.

- Optical sensor technology (OptoASIC)
- Resolution up to 13 bit (8192 ppr)
- 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



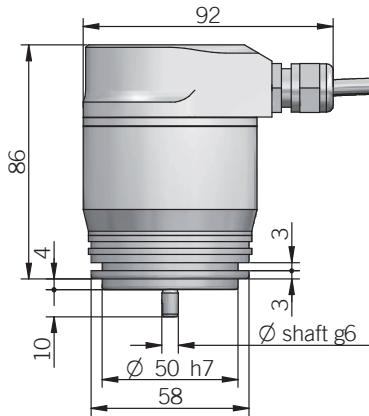
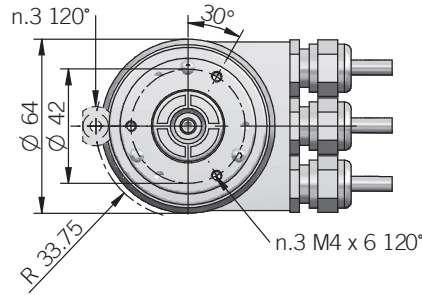
ORDERING CODE	EA	63A	4096	B	12/28	FXX	10	X	6	P3R	.XXX
SERIES singleturn absolute encoder	EA										
MODEL synchronous flange \varnothing 31.75 mm synchronous flange \varnothing 50 mm clamping flange \varnothing 36 mm centering square flange \varnothing 31.75 mm centering square flange \varnothing 50 mm		63A 58B 58C 63D 63E									
RESOLUTION ppr			4096 / 8192								
CODE TYPE binary				B							
POWER SUPPLY 12 ... 28 V DC					12/28						
ELECTRICAL INTERFACE PROFIBUS DP V0 CLASS 2						FXX					
SHAFT DIAMETER (mod. 58 B) mm (mod. 63 A / D) (9,52mm 3/8") mm (mod. 58 C - 63 A / D / E) mm							6 9 10				
ENCLOSURE RATING IP 54 IP 66								X S			
MAX ROTATION SPEED (IP 66) 3000 rpm (IP 54) 6000 rpm									3 6		
OUTPUT TYPE terminal box - radial cable glands radial M12 connectors										P3R M12R	
mating connectors included, without mating connectors please add 162 as variant code											
VARIANT custom version											

63 A



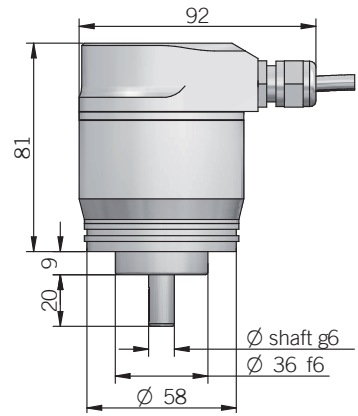
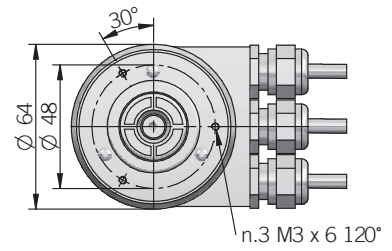
fixing clamps not included, please refer to Accessories

58 B

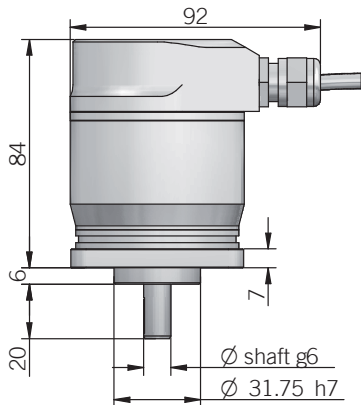
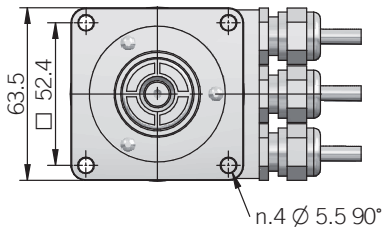


fixing clamps not included, please refer to Accessories

58 C

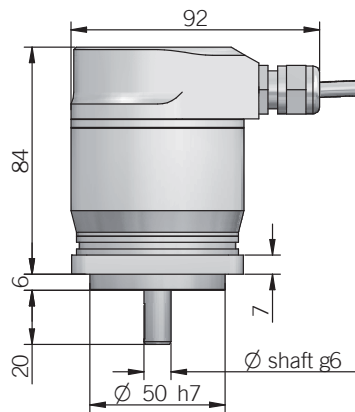
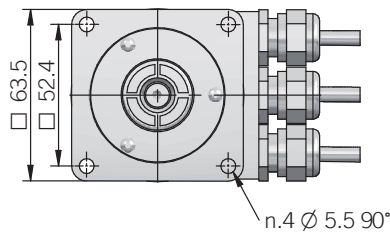


63 D



dimensions in mm

63 E



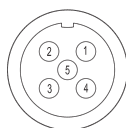
ELECTRICAL SPECIFICATIONS

Resolution	2 ... 4096 / 2 ... 8192 ppr programmable during commissioning
Power supply¹	11,4 ... 29,4 V DC (reverse polarity protection)
Current consumption without load	300 mA
Electrical interface²	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

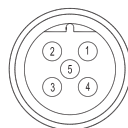
CONNECTIONS

Function	POWER	LINE OUT	LINE IN
+ V DC	2		
0 V	4		
A		2	
B		4	
A			2
B			4

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



LINE OUT - female (5 pin)
M12 B coded
solder side view FV



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



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 load³	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 lbf 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	n.2 ball bearings
Bearings life	10 ⁹ revolutions
Operating temperature^{4, 5}	0° ... +60°C (+32° ... +140°F)
Storage temperature⁵	-15° ... +70°C (+5° ... +158°F)
Weight	650 g (22,93 oz)

¹ as measured at the transducer without cable influences

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