

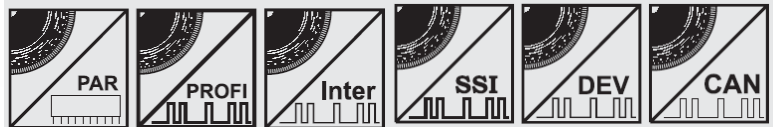
Absolute encoder-ASE58G series

Clamp flange, Servo flange



Main Features

- Compact and heavy-duty industrial model
- Interface: Parallel, SSI, Profibus-DP, Devicenet, Canopen, etc.
- Housing: 58 mm
- Shaft Ø 6/10 mm, hollow shaft: Ø 10/12 / 15 mm
- Standard 12 Bits or 13 Bits, Max. 65,536 steps per revolution (16 Bit)
- Standard 12 Bits, Max. 16,384 revolutions (14 Bit)
- Code: Binary, Gray



Electrical Data:

Interface	Parallel output push-pull. Serial interface: Line-driver according to RS 485, galvanically isolated by opto-couplers (SSI, Profibus, Devicenet, Canopen etc.		
Transmission rate	According to the protocol, Max. 12 MBaud		
Device addressing	Adjustable by rotary switches in connection cap(only for Fieldbus encoder)		
Supply voltage	10 -30 V DC	(absolute limits)	*
Current consumption	Max. 230 mA with 10 V DC, max. 100 mA with 24 V DC		
Power consumption	Max. 2.5 Watts		
Step frequency LSB	800 kHz		
Accuracy of division	± ½ LSB	(12 bit), ± 2 LSB	(16 bit)
EMC	Emitted interference:	EN 61000-6-4	
	Noise immunity:	EN 61000-6-2	
Electrical lifetime	> 100000 h		

Clamp flange, Servo flange

Mechanical Data:

Housing	Aluminum, optional stainless steel			
Lifetime	Dependent on shaft version and loading – refer to table			
Max. shaft loading	Axial: 40 N, Radial: 110 N			
Inertia of rotor	$\leq 30 \text{ gcm}^2$			
Friction torque	$\leq 3 \text{ Ncm}$ (without shaft sealing)			
RPM (continuous operation)	Singleturn: max. 12,000 RPM			
	Multiturn: max. 6,000 RPM			
Shock (EN 60068-2-27)	$\leq 100 \text{ g}$ (halfsine, 6 ms)			
Permanent shock (EN60028-2-29)	$\leq 10 \text{ g}$ (halfsine, 16 ms)			
Vibration (EN 60068-2-6)	$\leq 10 \text{ g}$ (10 Hz ... 2,000 Hz)			
Weight (standard version)	Singleturn: $\approx 550 \text{ g}$			
	Multiturn: $\approx 600 \text{ g}$			
Weight (stainless steel version)	Singleturn: $\approx 1,100 \text{ g}$			
	Multiturn: $\approx 1,200 \text{ g}$			
Flange	Synchro		Clamp	Hollow shaft
Shaft diameter	6 mm	10 mm	10 mm	15 mm
Shaft length	10 mm	20mm	20 mm	-
hollow shaft depth min. / max.	-	-	-	15 mm / 30 mm

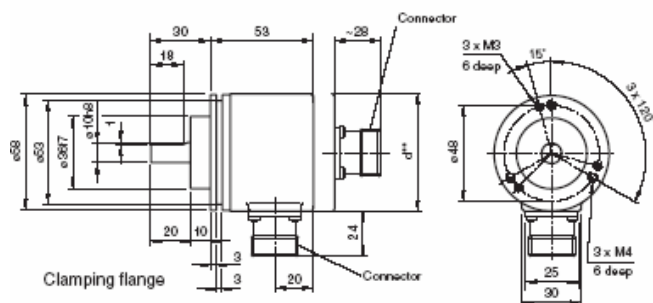
Environmental Conditions:

Operating temperature	- 40 .. + 185 °F
Storage temperature	- 40 .. + 185 °F
Humidity	98 % (without liquid state)
Protection class (EN 60529)	Casing side: IP 65 Shaft side: IP 64 (optional with shaft sealing: IP66)

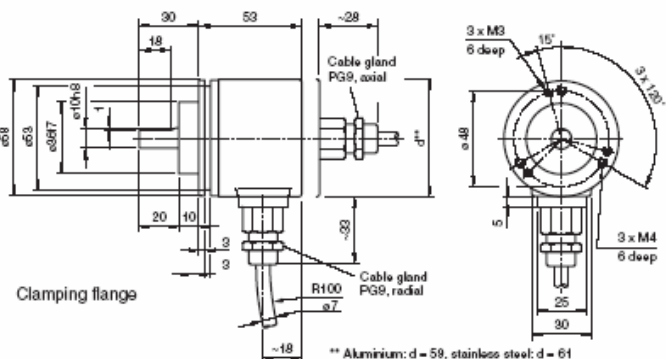
Clamp flange, Servo flange

Mechanical Drawings1:

Clamp flange : Available in two versions(parallel and SSI)

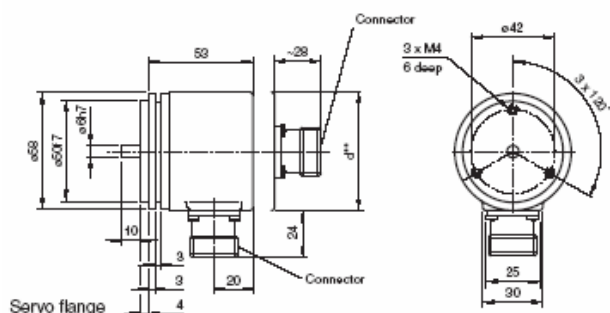


** Aluminium: d = 58, stainless steel: d = 61

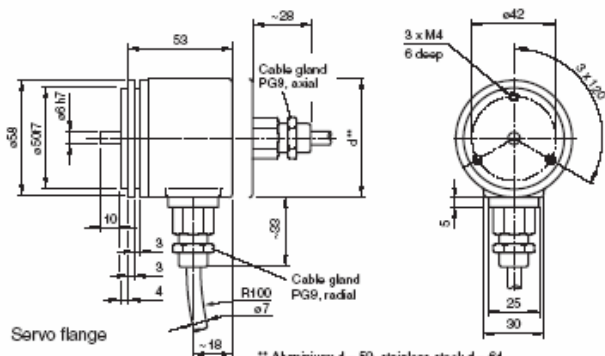


** Aluminium: d = 58, stainless steel: d = 61

Synchro flange: Available in two versions(parallel and SSI)



** Aluminium: d = 58, stainless steel: d = 61

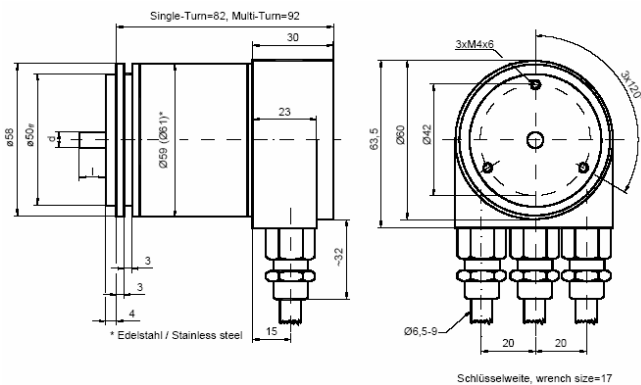


** Aluminium: d = 58, stainless steel: d = 61

Mechanical Drawings2:

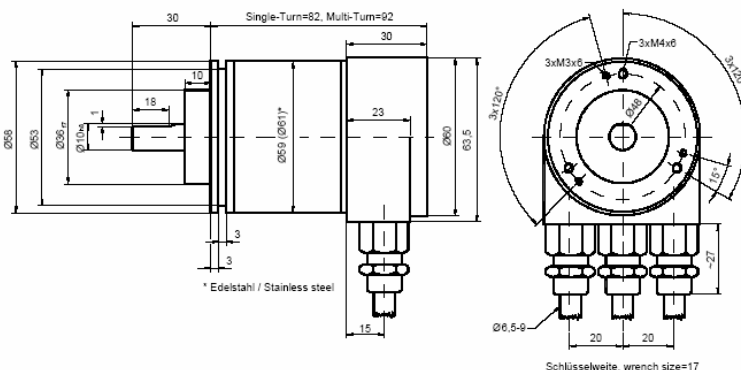
Available in three versions(Profibus, Devicenet, Canopen)

Synchro flange



Schlüsselweite, wrench size=17

Clamp flange

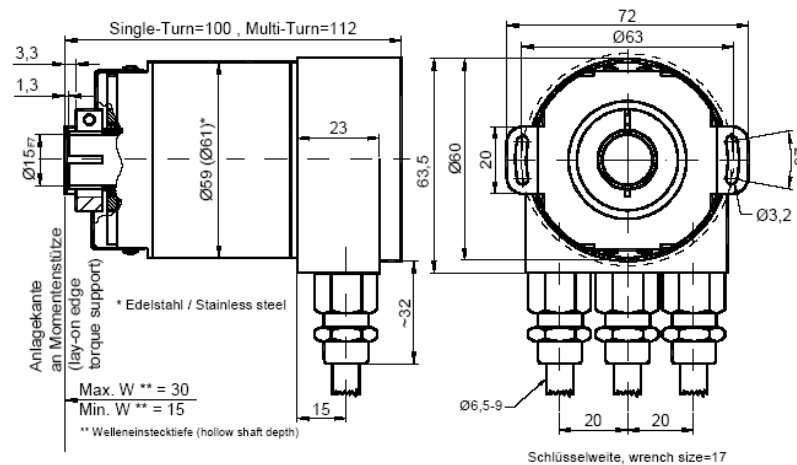


Schlüsselweite, wrench size=17

Clamp flange, Servo flange

Mechanical Drawings3:

Hollow Shaft



Order Code :

A S E 58 G / [A].[B].[C].[D].[E].[F].[G]

ASE58G – absolute shaft encoder housing ø58 mm

AHE58G – absolute hollow shaft encoder housing ø58 mm

A: 10 – shaft 10x20mm clamping flange

06- shaft 6x10mm servo flange

H1-Hollow shaft Ø10mm

H2- Hollow shaft Ø12mm

H3- Hollow shaft Ø15mm

B: C0 -F12 connector

TC-Terminal in cap(Profibus, Devicenet, Can open)

K1 – Cable 1m

C: A – axial

R – radial

D: B-Parallel output

S- SSI

P-Profibus

D-Devicenet

C-Canopen

E: A – Singturn

B – multiturn

F: G – general version

S- stainless steel housing

G: U- 12 bits(single trun)

V- 13bits(single trun)

W- 16 bits(single trun)

X-12x12bits(multi-turn)

Y-12x13bits(multi-turn)

Z-14x16bits(multi-turn)