ABSOLUTE ENCODER

PARALLEL

- Robustness and excellent resistance to shocks / vibrations
- High protection level IP65, IP67 option with a sealing flange
- Universal electronic circuits from 5 to 30Vdc
- Protection against short-circuits and inversion of polarity
- High resolutions available:13Bits ,Turn counting up tp 12Bits.
- High performances in temperature –40°C to 85°C
- Standard DIRECTION entry, LATCH option

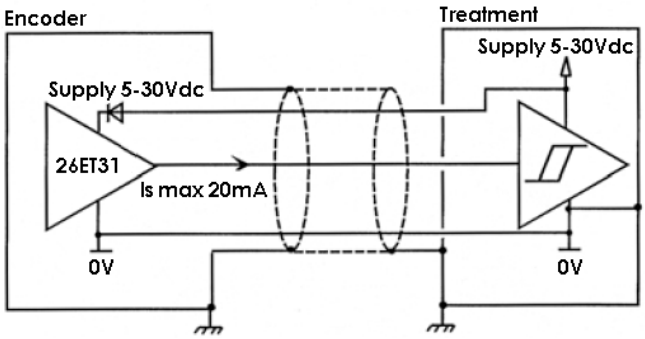
ELECTRICAL CHARACTERISTICS

Power supply	5 – 30Vdc
Outputs	Bit-parallel, push pull
Output level “high”	~ supply voltage (load dependent)
Step frequency	4.5 kHz ~ 50kHz
Cycle time (single t urn)	< 10 µs (< 150 µs with preset version)
Turn On Time	< 1s
Current consumption	Max. 400 mA (10 VDC),max. 180mA (24 VDC)
Precision	± 1/2 LSB (up to 12 Bit), ± 2 LSB (at 16 Bit)
EMC	EN61000-6-4,emitted interference ,EN 61000-6-2,nosie immunity

MECHANICAL CHARACTERISTICS

Housing	Aluminium
Shaft	Stainless Steel
Bearings	6 000 serie
Maximum number of revolutions permitted mechanically	6000 rpm
Shaft inertia	≤ 30 g.cm²
Starting Torque	≤ 3 N.cm
Maximum load permitted on shaft	Axial 40 N,Radial 110 N
Protection	IP 65
Operating Temperature	-40°...+85° C
Storage Temperature	-40°...+85° C
Shock resistance	≤ 100 g (during 6 ms) (IEC 68-2-27)
Vibration resistance	≤10 g (10… 2 000 Hz) (IEC 68-2-6)
Weight	680 g

OUTPUT SIGNALS



Power supply: 5 to 30 Vdc
Consumption without load:100mA max
Current output per channel: Is=20 mA max
Level 0’(Is=20mA) max : V_{ol} = 0,5Vdc
Level 1’(Is=20mA) min : V_{oh} = Vcc-2,5Vdc

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CONNECTION

Signal	Cable color	Connector
Bit 1	white	1
Bit 2	brown	2
Bit 3	green	3
Bit 4	yellow	4
Bit 5	grey	5
Bit 6	pink	6
Bit 7	blue	7
Bit 8	red	8
Bit 9	black	9
Bit 10	violet	10
Bit 11	green-pink	11
Bit 12	blue-red	12
Bit 13	white-green	13
Bit 14	brown-green	14
Bit 15	white-yellow	15

Signal	Cable color	Connector
Bit 16	yellow-brown	16
Bit 17	white-grey	17
Bit 18	grey-brown	18
Bit 19	white-pink	19
Bit 20	pink-brown	20
Bit 21	white-blue	21
Bit 22	brown-blue	-
Bit 23	white-red	-
Bit 24	brown-red	-
Bit 25	white-black	-
Prest	brown-black	22
Latch	grey-green	23
Complement	yellow-green	24
+UB=10-30V	pink-green	25
GND	yellow-pink	26

ORDERING CODE

AC150P	-			-			-		-		-	SXX
a		b	d		e	f		g		h	j		Option

a **Series**
Absolute Encoder

b **Shaft Type/ Flange**
2C=Solid shaft, Clamp
2S=Solid shaft, Synchro
5B=Blind Hollow shaft

d **Shaft size**
Solid Shaft: 6,8,10 mm
Blind Hollow shaft: 15 mm

e **Power Supply**
5 = 5-30 V

f **Interface**
PG=Parallel, Gray
PB=Parallel, Binary

g **Nb of Turns / Resolution**

0010	0013	1213
0012	1212	Option

h **Connector Location**
1=Axial
2=Radial

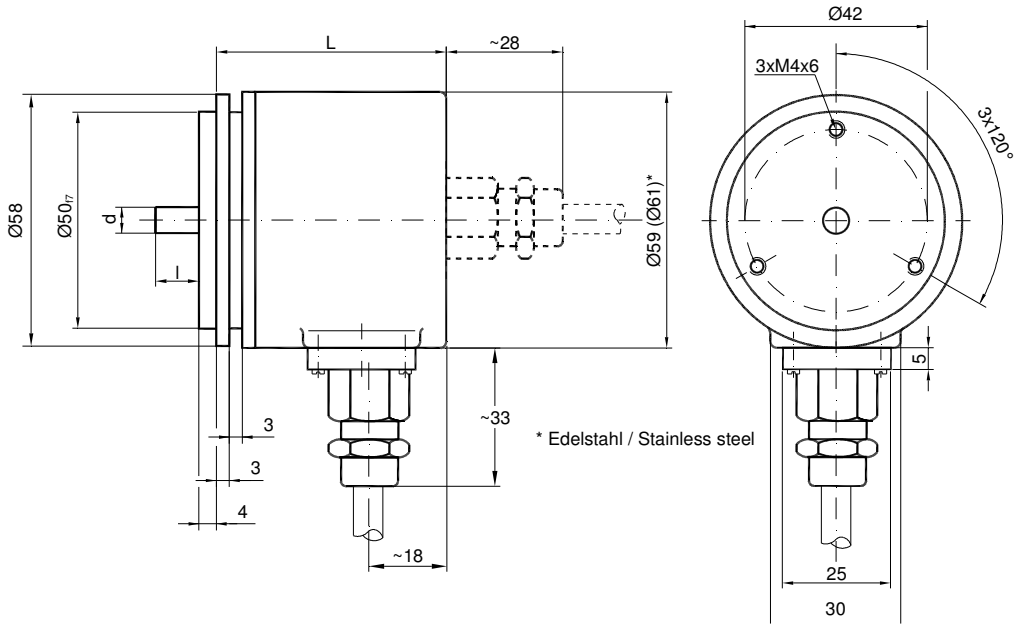
j **Connection**
6= 2m Cable
8= Connector exit

ABSOLUTE ENCODER

MECHANICAL DRAWINGS

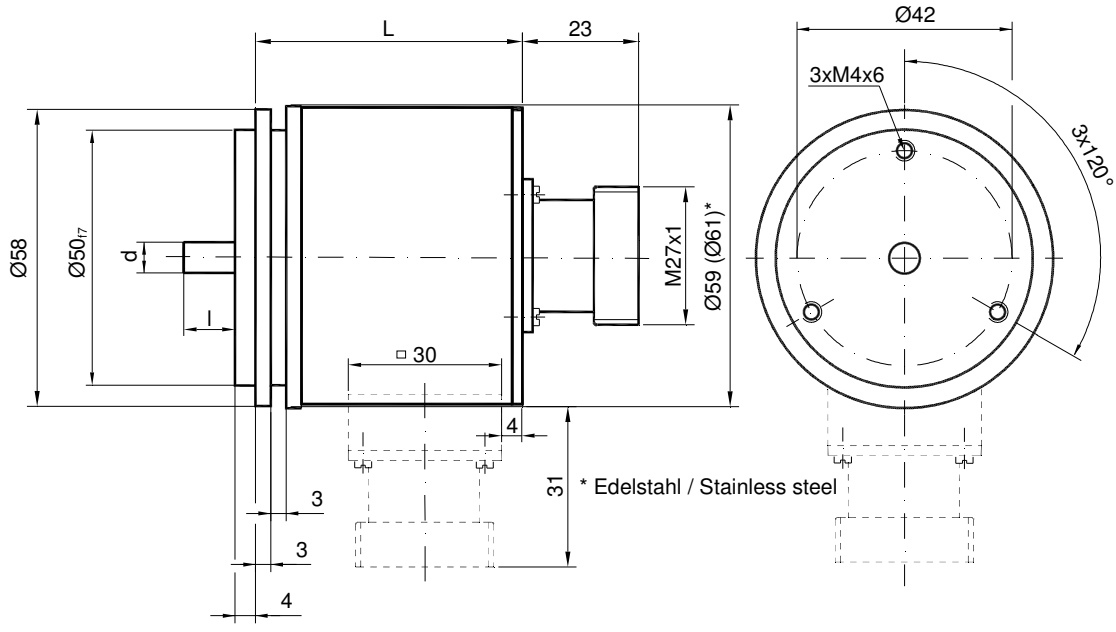
Synchro Flang (s) , Cable exit 1m

Synchro Flange	d / mm	l / mm
Version S06	6_{f6}	10
Version S10	10_{h8}	20



Synchro Flang (s) , Connector exit

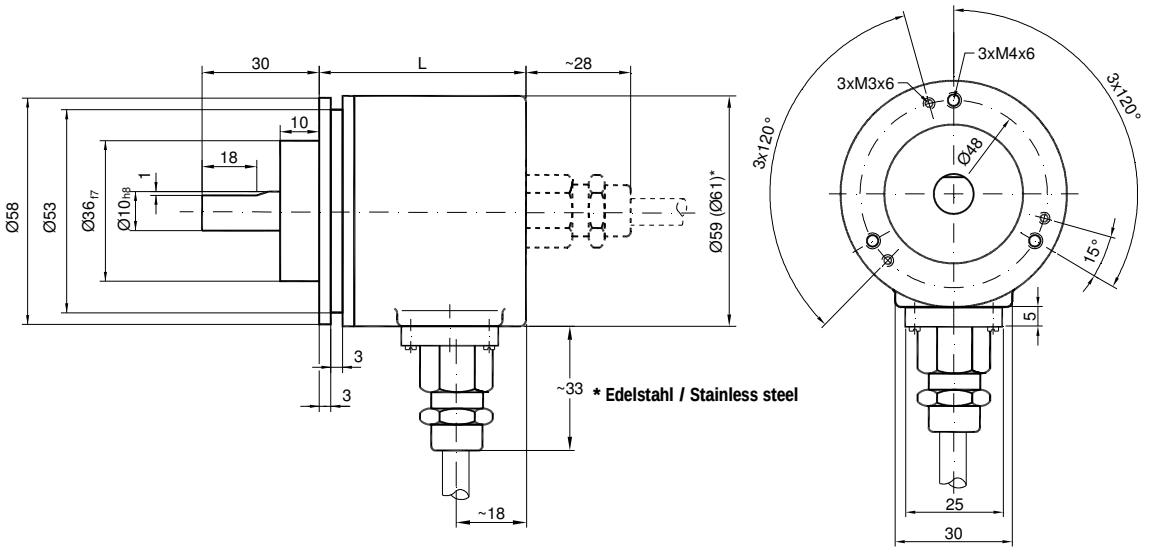
	L	
Cable exit		62
Connector	axial	62
	radial	78



ABSOLUTE ENCODER

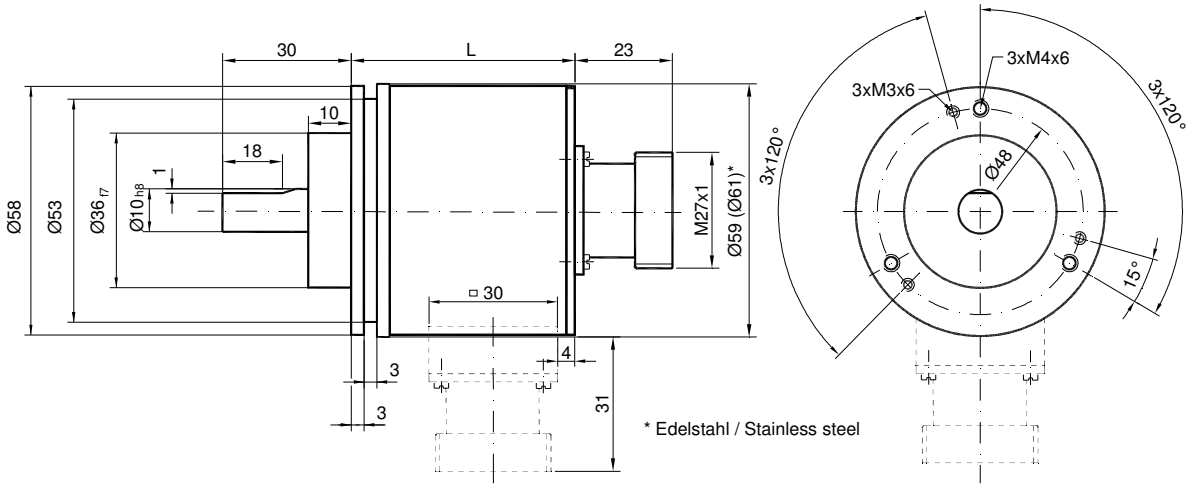
MECHANICAL DRAWINGS

Clamp Flang (C) , Cable exit 1m



Clamp Flang (C) , Connector exit

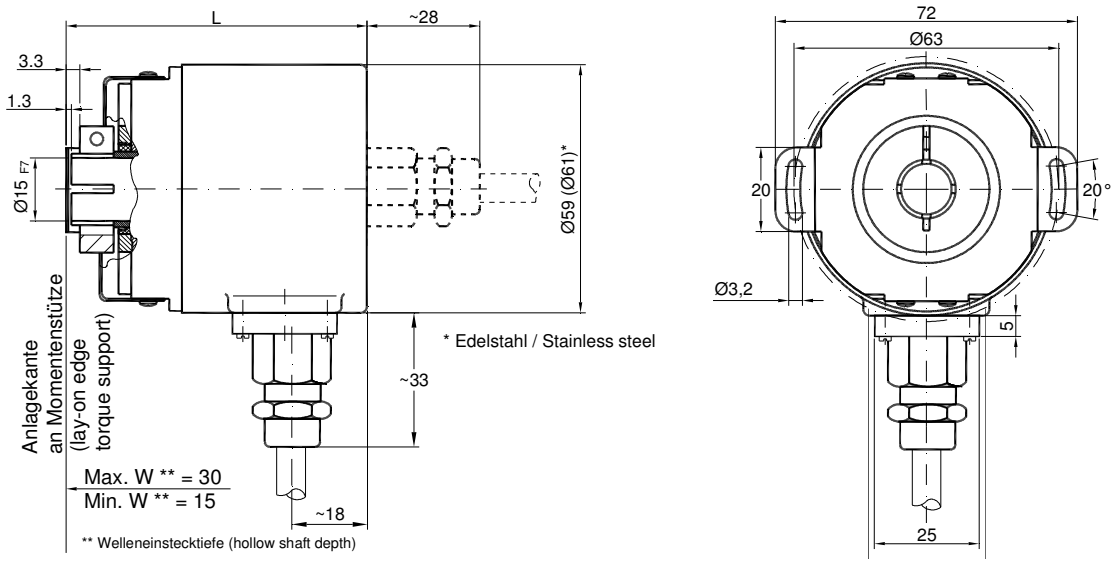
	L	
Cable exit		**62**
Connector	**axial**	**62**
	radial	**78**



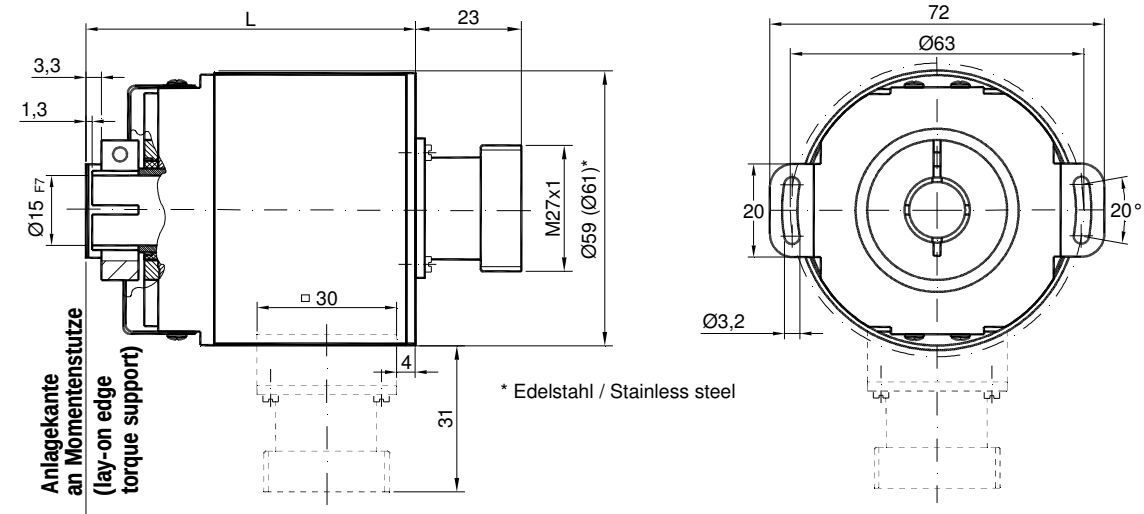
ABSOLUTE ENCODER

MECHANICAL DRAWINGS

Blind Hollow shaft , cable exit



Blind Hollow shaft , Connector exit



Max. W ** = 30
Min. W ** = 15
**** Welleneinstecktiefe (hollow shaft depth)**

		L
Cable exit		**80**
Connector	**axial**	**80**
	radial	**96**