

## Absolut Encoder

# BC 58

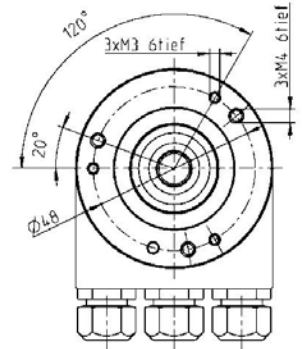
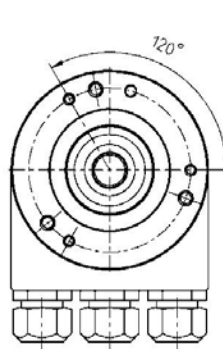
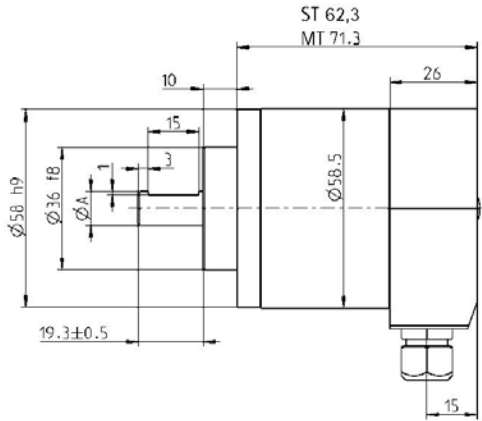
Singleturn / Multiturn  
short circuit-proof  
Parallel, SSI, Profibus DP,  
Interbus (K2) (K3) DeviceNet, CAN, CANopen,



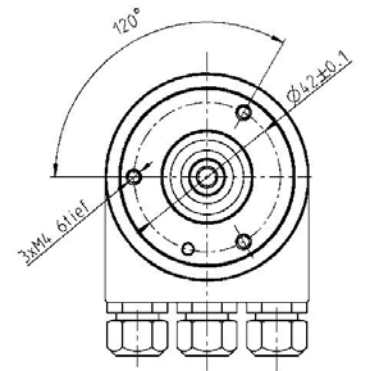
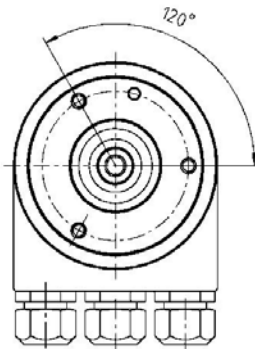
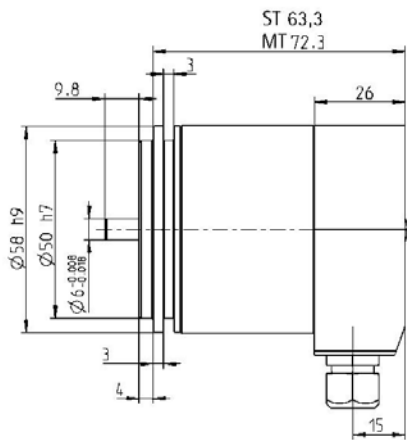
### Mechanical Specifications:

Shaft	6 mm (Synchronus flange)
	10 mm (Clamp flange)
	10 / 12 mm (Plug shaft)
Shaft load capacity	axial 20 N, radial 40 N (6 mm Shaft)
	axial 40 N, radial 60 N (10, 12 mm Shaft)
Operating speed	10 000 min <sup>-1</sup>
Operating torque	< 0,5 Ncm
Inertia moment of the rotor	Synchronus flange: 14 gcm <sup>2</sup>
	Clamp flange: 20 gcm <sup>2</sup>
	Plug shaft: 20 gcm <sup>2</sup>
Protection shaft	IP 64 oder IP 67
Protection enclosure	IP 67
Declaration of confirmiy	DIN EN 61010 protection class III
Operating temperature	- 40 ... 100 ° C
Storage temperature	- 40 ... 85 ° C
Vibration resistance DIN EN 60068-2-6	100 m/s <sup>2</sup> (10 ... 2000 Hz)
Thermal shock resistance DIN EN 60068-2-27	1000 m/s <sup>2</sup> (6 ms)
Connection	axial or radial
Enclosure	S = Synchronus flange, K= Clamp flange
	F = Plug- shaft
Start-torque	< 0,01 Nm
Wight	Singleturn ca. 260 g
	Multiturn ca. 310 g

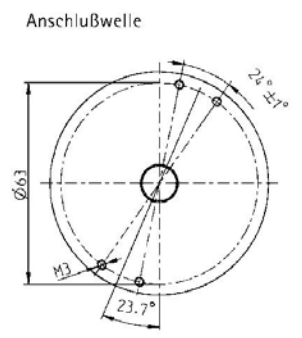
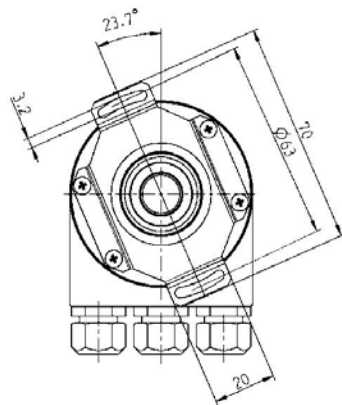
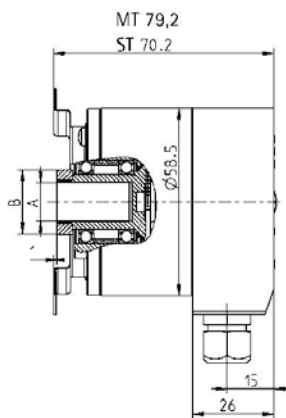
### Clamp flange („K“)



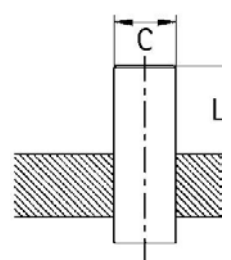
### Synchronus flange („S“)



### Plug -shaft („F“)



	Mass		Einheit
Hohlwellen-ØA	10 <sup>+0.012</sup>	12 <sup>+0.012</sup>	mm
Anschlusswellen-ØC	10 <sub>07</sub>	12 <sub>07</sub>	mm
Klemmring-ØB	18	20	mm
L min.	15	18	mm
L max.	20	20	mm
Wellen-Code	~2~	~7~	



## BC 58 with parallel interface: Singleturn

Parallel interface with cable:				
color (PVC)	10 Bit	12 Bit	13 Bit	14 Bit
grey/pink	N.C.	N.C.	N.C.	S0 (LSB)
brown/yellow	N.C.	N.C.	S0 (LSB)	S1
brown/grey	N.C.	S0 (LSB)	S1	S2
red/blue	N.C.	S1	S2	S3
violet	S0 (LSB)	S2	S3	S4
white/brown	S1	S3	S4	S5
white/green	S2	S4	S5	S6
white/yellow	S3	S5	S6	S7
white/grey	S4	S6	S7	S8
white/pink	S5	S7	S8	S9
white/bleu	S6	S8	S9	S10
white/red	S7	S9	S10	S11
white/black	S8	S10	S11	S12
brown/green	S9 (MSB)	S11 (MSB) Tristate	S12 (MSB)	S13 (MSB)
yellow	Tristate S0...S9	S0... S11 Latsch	Tristate S0...S1	Tristate S0...S13
pink	Latsch (only binär)	Latsch (only binär)	Latsch (only binär)	Latsch (only binär)
green	Direction	Direction	Direction	Direction
Black	0 V	0 V	0 V	0 V
red	5V/10..30VDC	5 V/10..30VDC	5V/10..30VDC	5V/10..30VDC
brown	Alarm	Alarm	Alarm	Alarm

Parallel interface with connector, 17 pins				
Pin	10 Bit	12 Bit	13 Bit	14 Bit
1	S0 (LSB)	S0	S12 (MSB)	S13 (MSB)
2	S1	S1	S11	S12
3	S2	S2	S10	S11
4	S3	S3	S9	S10
5	S4	S4	S8	S9
6	S5	S5	S7	S8
7	S6	S6	S6	S7
8	S7	S7	S5	S6
9	S8	S8	S4	S5
10	S9 (MSB)	S9	S3	S4
11	N.C.	S10	S2	S3
12	Tristate S0..S9	S11 (MSB) Latsch	S1	S2
13	Latsch (only binär)	Latsch (only binär)	S0 (LSB)	S1
14	Direction	Direction	Direction	S0 (LSB)
15	0 V	0 V	0 V	0 V
16	5V/10..30VDC	5 V/10..30VDC	5V/10..30VDC	5V/10..30VDC)
17	Alarm	Alarm	Alarm	Alarm