

## 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>
	Clemp 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



## BC 58 with parallel interface: Multiturn

Cabel (PVC) Color	Cabel(PVC) Configuration	Cabel (PVC) Color	Cabel (PVC) Configuration	Cable (PVC) Color	Color(PVC) Configuration
brown	S 0	yellow/brown	S 11	grey/green	M 10 (2)
green	S 1	wite/grey	M 0	Yellow/grey	M 11 (2)
yellow	S 2	grey/brown	M 1	pink/green	<u>Alarm</u>
grey	S 3	white/pink	M 2	yello/pink	<u>Direction</u>
pink	S 4	yello/brown	M 3	green/blue	Latsch
Violet	S 5	white/blue	M 4 (1)	yellow/blue	Tristate
grey/pink	S 6	brown/blue	M 5 (1)	red (0,5 mm <sup>2</sup> )	10..30 V DC
red/bleu	S 7	white/red	M 6 (1)	white (0,5mm <sup>2</sup> )	10..30 V DC
white/green	S 8	brown/red	M 7 (1)	blue (0,5 mm <sup>2</sup> )	0 V
brown/green	S 9	white/black	M 8 (2)	black (05 mm <sup>2</sup> )	0 V
white/yellow	S 10	brown/black	M 9 (2)		

- 1) N.C. about 16 Bit
- 2) N.C. about 16 or 20 Bit

Electrical Specification	
Power supply	10-30 V
Max. current consumption ST / MT	200 mA /300 mA
Interface	Parallel
Output Code	Binär, Gray, Gray-Excess
Resolution Singleturn	10-14 Bit , 12 Bit at MT Variante
	Gray Excess: 360, 720 Steps
Resolution Multiturn	12 Bit
Linearity	+/- ½ LSB
Permissible load/ per Bit	30 mA, Short circuit proof outputs
Programmable funktions	<u>Latsch</u> , <u>Direction</u> , <u>Tristate</u> by ST ; Tristate by MT
Connection	Cable or Connector 17 pins. axial oder radial, Sub D-37 pins

### Order No:

**BC 58 / 1212 E K.42 PB B**

Resolution	Supply voltage	Flange	Protection	Shaft	Interface	Connection
<b>0010</b> 10 Bit ST	E= 10-30 V	<b>S.41</b> Sychro	IP 64	6 mm	<b>PB</b> = Parallel	<b>A</b> = Cable axial
<b>0012</b> 12 Bit ST		<b>S.71</b> Sychro	IP 67	6 mm	Binär	<b>B</b> = Cable radial
<b>0013</b> 13 Bit ST		<b>K.42</b> Clamp	IP 64	10 mm	<b>PG</b> = Parallel	<b>W</b> = Connector 17 pins. axial
<b>0014</b> 14 Bit ST		<b>K.72</b> Clamp	IP 67	10 mm	Gray	<b>Y</b> = Connector 17pinsl. radial
<b>0360</b> 360 ST		<b>F.42</b> Plug-shaft	IP 64	10 mm H-shaft		<b>A-A1-F</b> = 0,1 m Cable /axial + 37 pins connector
<b>0720</b> 720 St		<b>F.47</b> Plug-shaft	IP 64	12 mm H-shaft		<b>B-A1-F</b> = 0,1 m Cable/ radial + 37 pins connector
<b>1212</b> 12 MT+12 S						