

Solid mechanical construction
Protection to IP 65, IP 66
SMD technology
Electronic preset
Connection to fieldbus over suitable gateway



Absolut Encoder EAS 65 / 58

Optical absolute singleturn shaft encoder of high resolution, Flange diameter 65 mm

Resolution

Resolution (Steps/360°):

65536 = 16 Bit

8192 = 13 Bit

4096 = 12 Bit

Type explanation

EAS 65/58-8192G-30-D-SC12

Encoder type	Absolute
Flange diameter	ø 65 mm
Case diameter	ø 58 mm
Number of bits	4096 = 12 bit 8192 = 13 bit 65536 = 16 bit
Electronic adjustment	Yes
Supply voltage	30 = 10..30 VDC
Output driver	D-SSI
Position of connection	R S
Connector	C12 = 12 pins M23
Shaft diameter	ø 10 mm

Technical data

Mechanical data

Rotational speed	? 12.000 min ⁻¹
Torque	? 3 Ncm
Moment of inertia	30 g cm ²
Loading of bearings	110 N radial 40 N axial
Operational life of ball bearings	> 10 ⁵ h (1000 min ⁻¹)
Weight	? 0,35 kg

Environmental conditions

Vibration	100 m/s ² (10 ... 1000 Hz)
Shock	300 m/s ² (11 ms)
Operating temperature	-40 ... +85°C
Storage temperature	-40 ... +85°C
Atmospheric humidity	? 98% r.h.
Protection class	IP 65 (DIN 40050/IEC 144) IP 66 (optional)

Electrical data

Scanning type	Optical, without contact
Transmitter, infrared	LED
Receiver	Photo-Array
Scanning frequency LSB	800 kHz
Measurement accuracy	± ½ LSB (12 bit) ± 1 LSB (13 bit) ± 2 LSB (16 bit)
Supply voltage	V _{cc} = 10...30 VDC
Power consumption	? 90 mA (V _{cc} = 24 V)

Electrical connections

SSI

Interface	RS485
Clock	Optocoupler

Incremental outputs

1024 pulses per revolution	AA+BB/90° RS422 (optional)
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Inputs

Rotational direction	CW/CCW
Electronic adjustment	RESET (optional)

Connector 12 pins M23

Connection	Signal
Pin 1	+Vcc
Pin 2	0 V GND
Pin 3	Clock+
Pin 4	Data+
Pin 5	RESET ¹⁾
Pin 6	Data-
Pin 7	Clock-
Pin 8	A+ ²⁾
Pin 9	CW/CCW
Pin 10	B+ ²⁾
Pin 11	B- ²⁾
Pin 12	A- ²⁾

1) optional

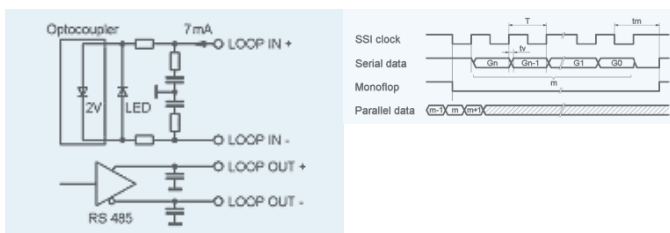
2) nur bei Ausgangstreiber "DI"

Cable

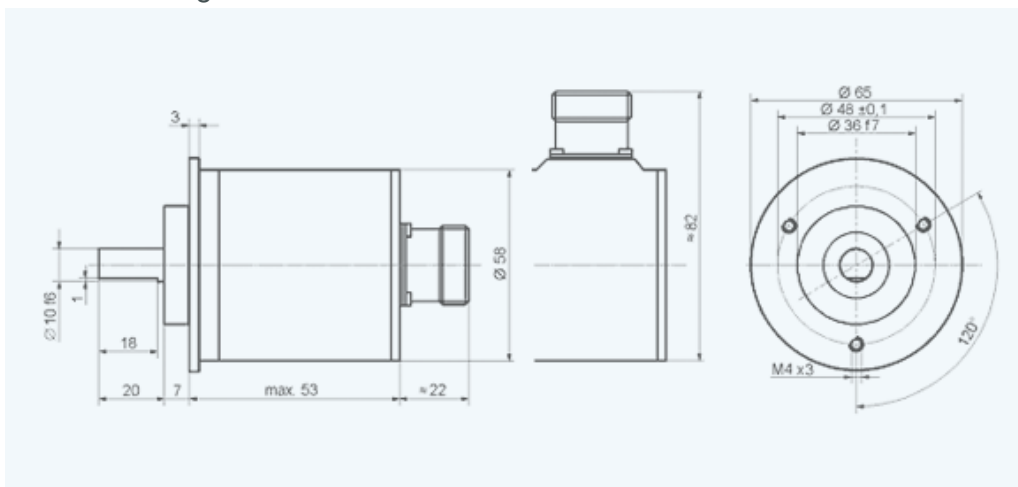
Wire colour	Signal
White	0 V GND
Brown	+Vcc
Green	Clock+
Yellow	Clock+
Grey	Data+
Pink	Data-
Red	CW/CCW
Black	RESET ¹⁾

1) optional

Channel schematic



Outline drawing



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