



- 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	$\leq 12.000 \text{ min}^{-1}$
Torque	$\leq 3 \text{ Ncm}$
Moment of inertia	30 g cm^2
Loading of bearings	110 N radial 40 N axial
Operational life of ball bearings	$> 10^5 \text{ h (1000 min}^{-1}\text{)}$
Weight	$\leq 0,35 \text{ kg}$

Environmental conditions

Vibration	$100 \text{ m/s}^2 (10 \dots 1000 \text{ Hz})$
Shock	$300 \text{ m/s}^2 (11 \text{ ms})$
Operating temperature	$-40 \dots +85^\circ\text{C}$
Storage temperature	$-40 \dots +85^\circ\text{C}$
Atmospheric humidity	$\leq 98\% \text{ r.h.}$
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	$\pm \frac{1}{2} \text{ LSB (12 bit)}$ $\pm 1 \text{ LSB (13 bit)}$ $\pm 2 \text{ LSB (16 bit)}$
Supply voltage	$V_{cc} = 10 \dots 30 \text{ VDC}$
Power consumption	$\leq 90 \text{ mA (} V_{cc} = 24 \text{ V)}$

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

Pin	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"

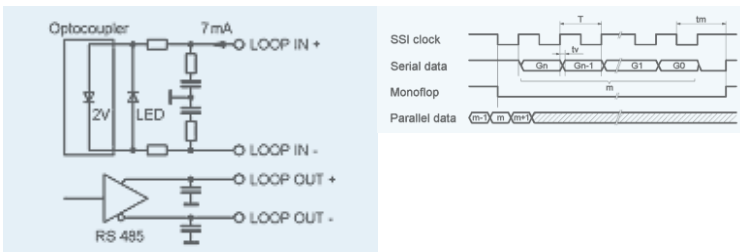
Cable

Wire colour

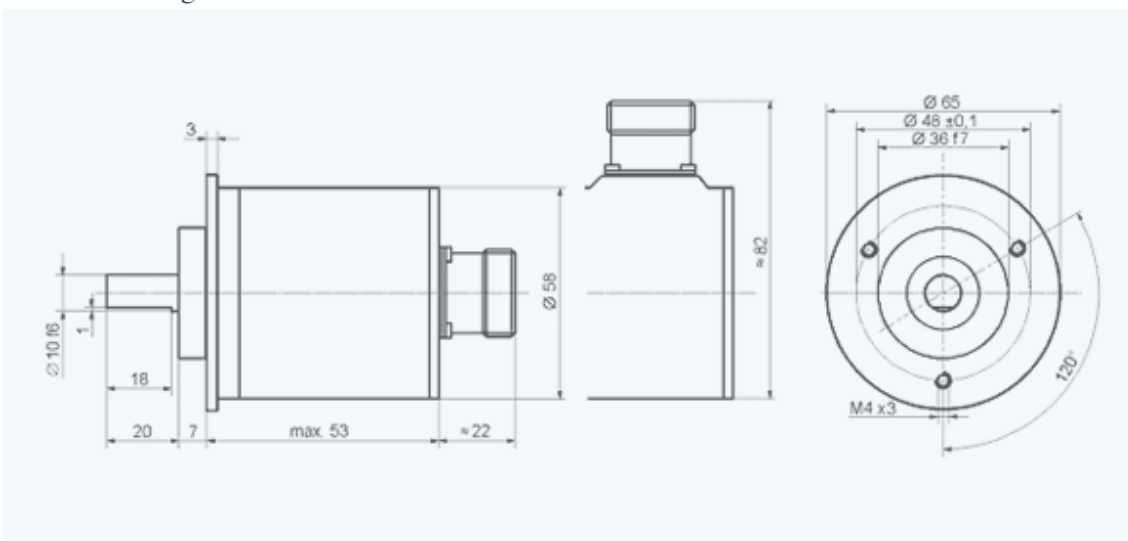
Wire colour	Signal
White	0 V GND
Brown	+Vcc
Green	Clock+
Yellow	Clock+
Grey	Data+
Pink	Data-
Red	CW/CCW
Black	RESET ¹⁾

1) optional

Channel schematic



Outline drawing



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