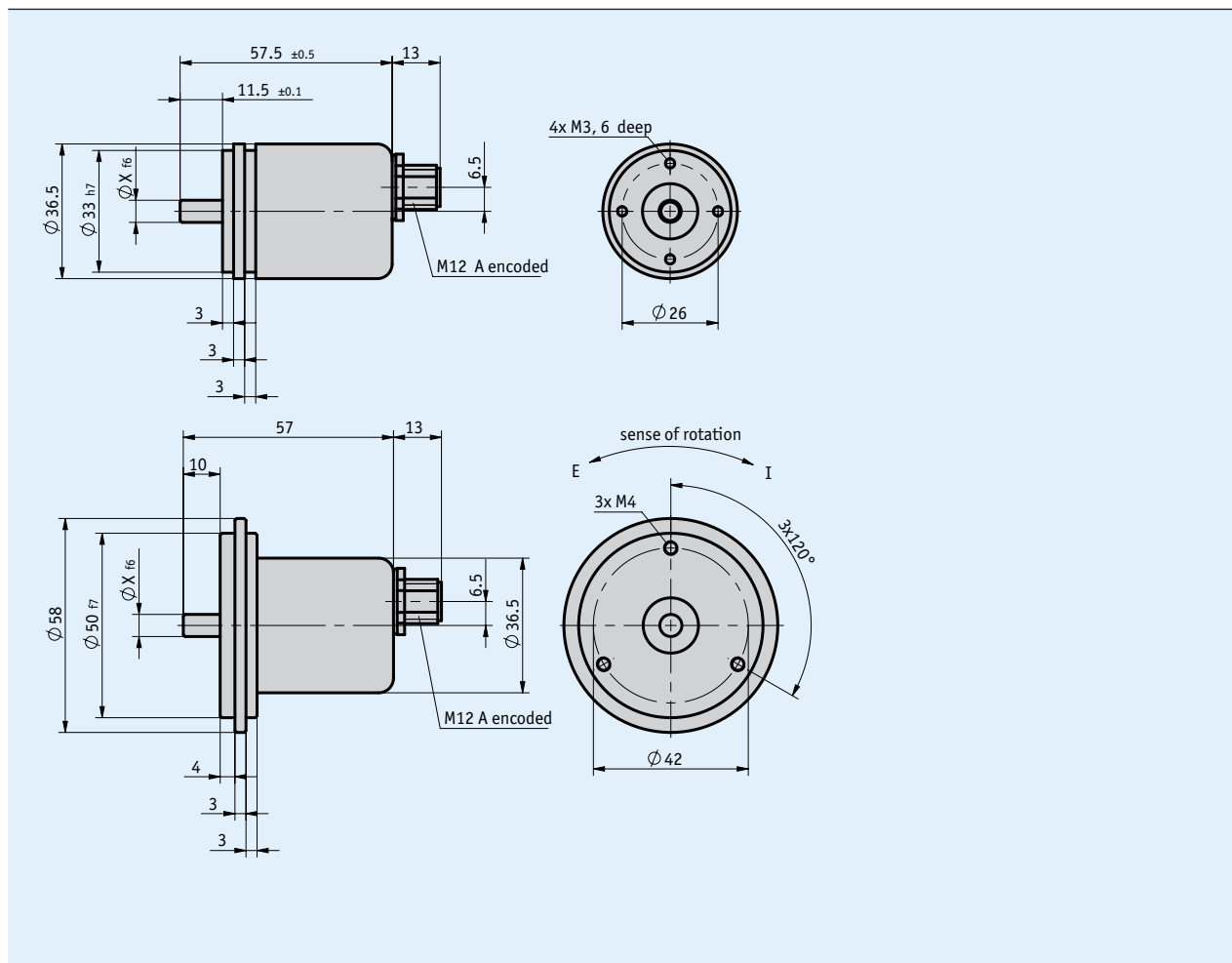


Profile

- Compact design (36.5mm diameter)
- SSI interface
- IP65 protection category
- Multi-turn without battery
- Double ball bearings
- 13 bit multi-turn (8192 revolutions)
- 12 bit single-turn (4096 steps)



Mechanical data

Feature	Technical data	Additional information
Shaft	stainless steel	
Flange	aluminum	
Housing	steel	
Speed	≤12000 rpm	
Moment of inertia	≤30 gcm ²	
Starting torque	≤3 Ncm	bei 20 °C
Shaft load rating	axial ≤40 N radial ≤110 N	
Weight	~0.18 kg	

Electrical data

Feature	Technical data	Additional information
Operating voltage	4.5 ... 30 V DC	reverse polarity protection, for power supply unit according to EN 50178
Power input	≤1 W	
SSI clock speed input	100 kHz ... 2 MHz	(≤1200 m; 100 kHz)
Interface	line driver to RS422	
Cycle time	≥25 µs	singleturn

System data

Feature	Technical data	Additional information
Resolution	4096	
Failure rate	350 year(s)	at 40 °C (MTTF)

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-40 ... 85 °C	
Storage temperature	-40 ... 85 °C	
Relative humidity	98 %	condensation inadmissible
EMC	EN 61000-6-2 EN 61000-6-4	interference resistance / immission emitted interference / emission
Protection category	IP65	EN 60529
Shock resistance	≤1000 m/s ² , 6 ms	EN 60068-2-27
Vibration resistance	≤100 m/s ² , 10 Hz ... 1 kHz	EN 60068-2-6

Pin assignment

Signal	PIN
GND	1
+UB	2
SSI clock +	3
SSI clock -	4
SSI data +	5
SSI data -	6
Calibration input	7
Sense of rotation	8

Order

Ordering table

Feature	Ordering data	Specification	Additional information
Output code	B	binary	
	G	gray	
Number of revolutions	1	singleturn	
	4096	12 bit	
	8192	13 bit	
Mounting type	6/S36	shaft ø6 mm, flange ø36 mm	
	6/S58	shaft ø6 mm, flange ø58 mm	

Order key

WV36M/SSI - A - 4096 - B - C - M12

Scope of delivery: WV36M/SSI

Accessories:

Electronic display MA10/4
 Servo clamp SK
 Flexible coupling AK18
 Mating Connector Overview
 Mating connector, 8-pole, socket

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