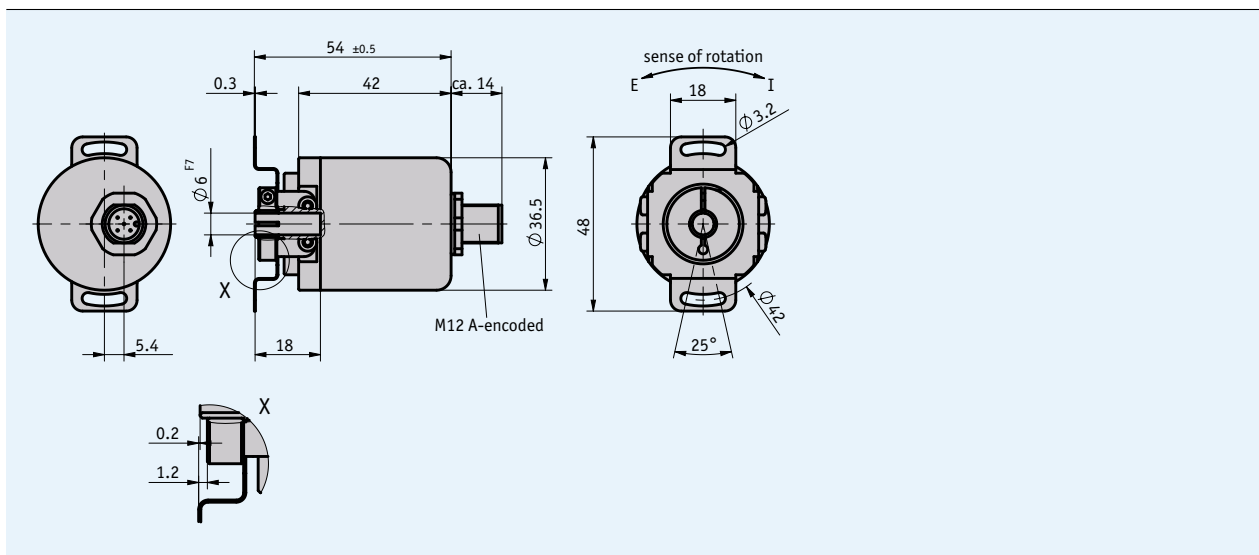


Profile

- Absolute analog encoder
- 12 Bit (4096) resolution above the measuring range
- Operating temperature up to -40 °C
- Voltage (0 ... 10 V)/current (4 ... 20 mA) outputs
- Programmable measuring range via teach-in function with external inputs
- Hollow shaft with $\varnothing 6$ mm



2.1

Mechanical data

Feature	Technical data	Additional information
Max. speed	≤12000 rpm	
Shaft moment of inertia	≤20 gcm ²	
Starting torque	≤2 Ncm	at 25 °C
Shaft load rating	radial 80 N axial 20 N	
Weight	~0.15 kg	
Protection category	housing IP65, shaft IP54	
Operating temperature	-40 ... +85 °C	
Storage temperature	-40 ... +85 °C	
Shock resistance	≤100 g/6 ms	according to DIN EN 60068-2-27
Vibration resistance	≤10 g (10 ... 1000 Hz)	according to DIN EN 60068-2-6
Humidity	98%	condensation inadmissible
Shaft	stainless steel	
Housing	aluminium and coated steel	

Electrical data

Analog outputs

Feature	4 ... 20 mA (MWI)	0 ... 10 V (MWU)	Additional
Operating voltage	15 ... 30 V DC	12 ... 30 V DC	
Load resistance	<500 Ω, at UB ≥15 V DC	<10 kΩ, at UB ≥12 V DC	
Linearity	0.15 %	0.15 %	
Starting time	<1 s	<1 s	
Settling time	80 ms	80 ms	
Power consumption (typ.)	50 mA	50 mA	

Encoder data

Feature	Technical data	Additional information
Resolution	12 bit	above the programmed measuring range
Smallest measuring range	22.5°	
Accuracy Singleturn	±0.35°	
Resolution singleturn	12 bit	
Largest measuring range	65 536 revolution	16 revolution factory setting, only multiturn

Pin assignment

Signal	PIN
I _{out} /U _{out}	1
+UB	2
GND	3
Set 2	4
Set 1	5

Order

Order table

Feature	Order text	Specification	Additional information
Analog output	MWI	4 ... 20 mA	
	MWU	0 ... 10 V	
Measuring range	M	multiturn	
	S	singleturn	measuring range max. 360°

Order code

AH36M - - - M12

A B

Scope of delivery: AH36M, User information

Accessories:

Mating connectors
Electronic display MA50

Page 106
Page 92

Additional information:

General information and areas of application

Page 8 cont.