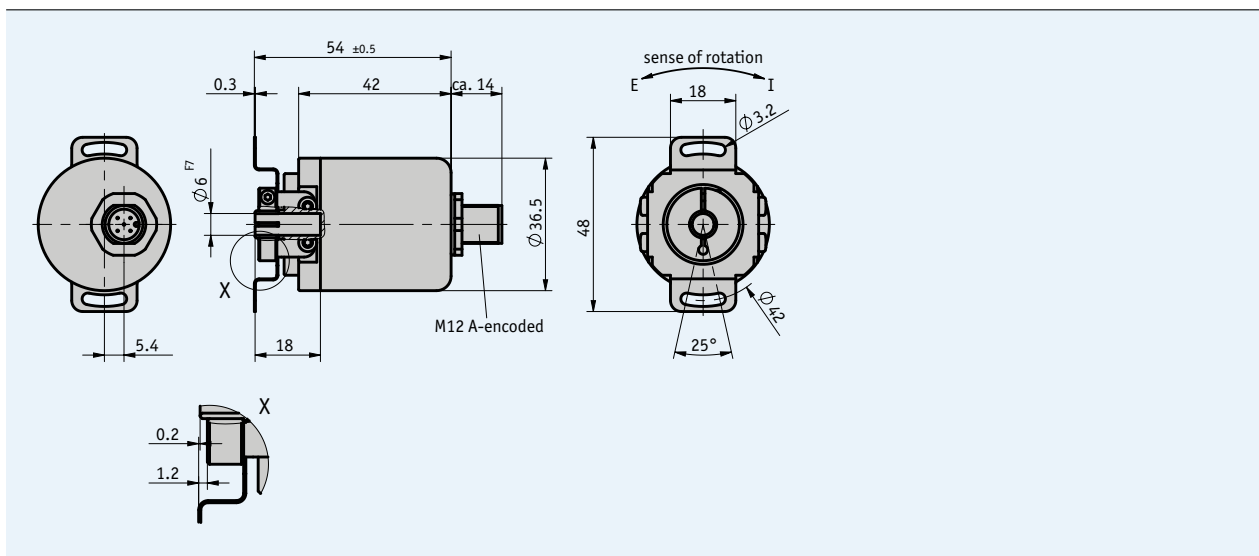


### Profile

- 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



### Mechanical data

Feature	Technical data	Additional information
Max. speed	≤12000 rpm	
Shaft moment of inertia	≤20 gcm <sup>2</sup>	
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	nach DIN EN 60068-2-27
Vibration resistance	≤10 g (10 ... 1000 Hz)	nach 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	<1s	<1s	
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 <sub>out</sub> /U <sub>out</sub>	1
+UB	2
GND	3
Set 1	4
Set 2	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  
 Servo-clamp  
 Electronic displays MA50