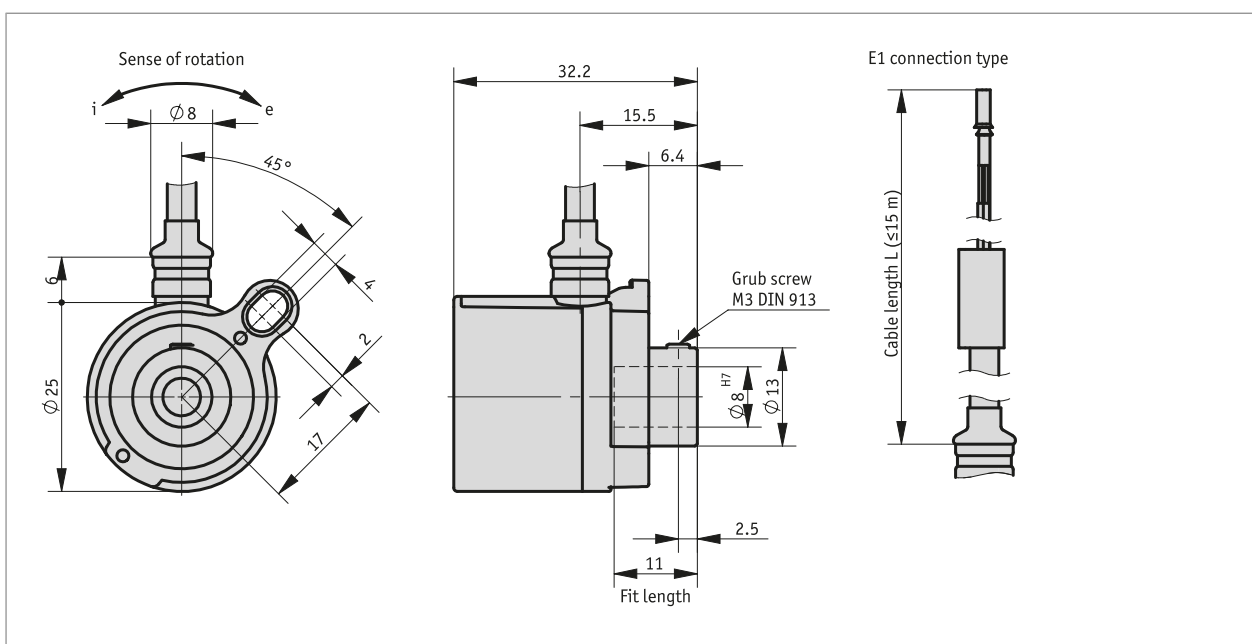


Profile

- Miniature absolute analog encoder
- 12 bit (4096) resolution over 360°
- IP65 protection class
- -40 ... 85° C operating temperature
- Voltage (0 ... 10 V, 0.5 ... 4.5 V), current (0 ... 20 mA, 4 ... 20 mA) outputs
- Easy mounting by hollow shaft $\varnothing 8\text{mm}$

ANALOG



Mechanical data

Feature	Technical data	Additional information
shaft	Cu-Zn alloy	
Housing	zinc die-cast	
Speed	$\leq 6000 \text{ min}^{-1}$	
Cable sheath	PUR	
Weight	$\sim 0.08 \text{ kg}$	(with 1 m cable)

Electrical data

Feature	Technical data	Additional information
Operating voltage	12 ... 30 V DC	
Output voltage	0 ... 10 V 0.5 ... 4.5 V	load against GND $\geq 1 \Omega$ (0/10V) load against GND $\geq 1 \Omega$ (0.5/4.5V)
Output current	0 ... 20 mA 4 ... 20 mA	load against GND $\leq 500 \Omega$ (0/20mA) load against GND $\leq 500 \Omega$ (4/20mA)
Accuracy	$\pm 1^\circ$	at 360° measuring range
Cycle time	$\leq 1 \text{ ms}$	
Starting time	$< 1 \text{ ms}$	

System data

Feature	Technical data	Additional information
Failure rate	325 Year(s)	at 60 °C (MTBF)

Ambient conditions

Feature	Technical data	Additional information
Ambient temperature	-40 ... 85 °C	
Storage temperature	-40 ... 85 °C	
Relative humidity	100 %	condensation admissible
Protection category	IP65	EN 60529
Shock resistance	500 m/s ² , 11 ms	EN 60068-2-27
Vibration resistance	<100 m/s ² , 5 ... 150 Hz	EN 60068-2-6

pin assignment

■ Transducer, power output

Assignment	Cable color E1
GND	white
I _{OUT}	green
+UB	brown

■ Transducer, voltage output

Assignment	Cable color E1
GND	white
U _{OUT}	green
+UB	brown

Order

■ Ordering table

Feature	Ordering data	Spezifikation	Additional information
Cable length	A ...	01.0 ... 15.0 m, in intervals of 1 m	
output	B 0.5/4.5V 0/10V 0/20mA 4/20mA	measuring transducer 0.5 ... 4.5 V transducer 0 ... 10 V transducer 0 ... 20 mA transducer 4 ... 20 mA	
Sense of rotation	C i e	clockwise ascending values counter-clockwise ascending values	

■ Order key

AH25S - **8** - **E1** - **A** - **B** - **360°** - **C**



Scope of delivery:
AH25S