

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 ø8mm

ANALOG



Mechanical data

Feature	Technical data	Additional information
shaft	Cu-Zn alloy	
Housing	zinc die-cast	
Speed	≤6000 min ⁻¹	
Cable sheath	PUR	
Weight	~0.08 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 ≥1 Ω (0/10V) load against GND ≥1 Ω (0.5/4.5V)
Output current	0 ... 20 mA 4 ... 20 mA	load against GND ≤500 Ω (0/20mA) load against GND ≤500 Ω (4/20mA)
Accuracy	±1 °	at 360° measuring range
Cycle time	≤1 ms	
Starting time	<1 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

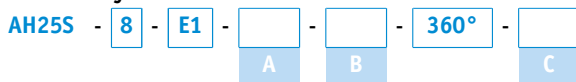
Assignment	Cable color E1
GND	white
U _{OUT}	green
+UB	brown

Order

■ Ordering table

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

■ Order key



 **Scope of delivery:**
AH25S