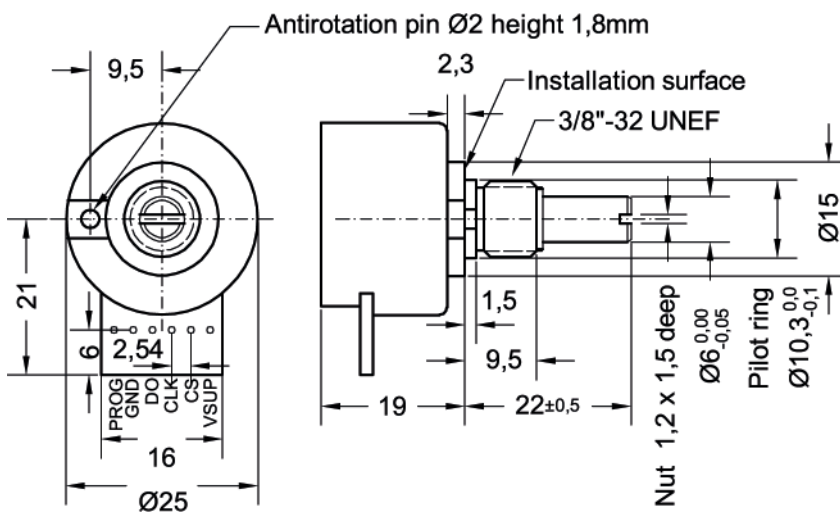


- Low price
- Contactless hall-sensor technology
- Resolution 10 or 12 bit per 360°
- Polymer sleeve bearing
- Synchronous serial interface
- Programmable zero point setting
- Nominal operating voltage 5V DC (3,3V*)



The absolute control encoder MAB25 is used as a high resolution device or a rotary encoder for universal applications.

Dimensional Drawing



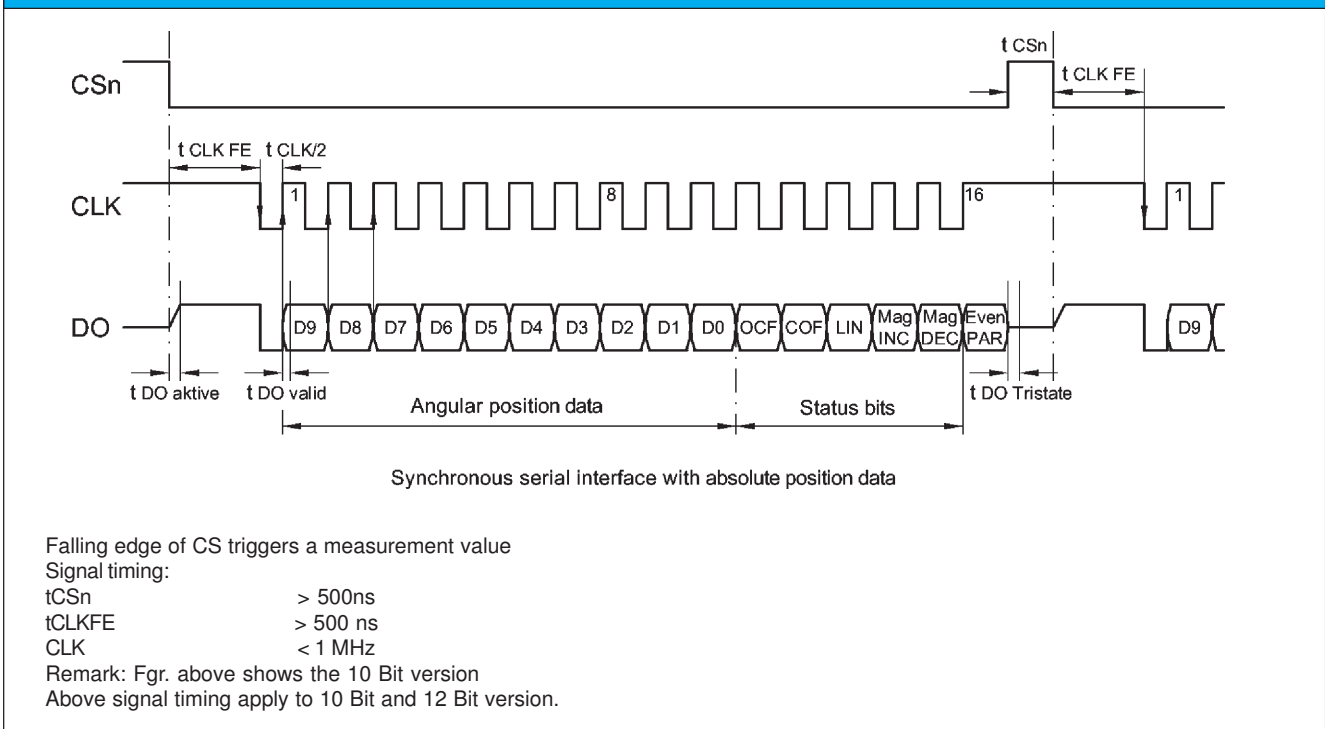
Connection diagram	
VSUP	Power supply
CS	Chip select, LOW aktiv
CLK	Clock Input
DATA	Data output
GND	Ground
PROG*	Programming input

*for programmin only
otherwise not connected

Electrical Specifications	
Electrical angle	360°
Resolution (positions/turn)	1024 (10 Bit) / 4096 (12 Bit)
Output signal	SER... like SSI but with status signal
Update-rate position	0,1ms
Supply voltage	4,5V ≤ VSUP ≤ 5,5V
Power consumption (no load)	<20 mA
Mechanical Specifications	
Max. operating speed	3000 rpm
Life expectancy	> 50 Mio. rev.
Max. clamping torque of mouting nut	1 Nm

Environmental Specifications / Materials	
Protection grade (shaft feedthrough and housing)	IP40
Operating temperature range	-40°C ... +85°C
Storage temperature range	-40°C ... +85°C
Bearing	Polymer sleeve bearing
Housing material	glass-fiber reinforced polyamide
Shaft material	stainless steel
Mounting parts (included in delivery)	hex-nut (wrench opening 14), inner teeth washer
Weight	22 g

Timing Diagramm SER-Bus



Ordering Description

Series	Resolution Speed	Supply Voltage	Interface	Ordering description
MAB25	10 Bit High Speed	5V	SER	MAB25 10HS 5 SER
	12 Bit High Speed			MAB25 12HS 5 SER

Please ask for more options and fittings.

Our speciality are special solutions, economically priced on small series

At serial demand >500 pcs on request: 3,3V supply voltage, standard processor interface, special angles, special shafts, sealing ring, mounting of gear wheels and other mechanical parts, modification of cables and connectors and other.

Please note

All the specifications and information in this datasheet can not consider the special demands that are caused by the application. Because of this, they are no general description of the properties of the product.
 Please find the exact specification of the output signals in the datasheets and application notes (AS 5040, AS5045) of Austria Microsystems: www.austriamicrosystems.com

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