WACHENDORFF
The Encoder Experts

Precise positioning
with the LMS MA

DEVELOPED AND
MADE IN GERMANY
5 YEARS WARRANTY

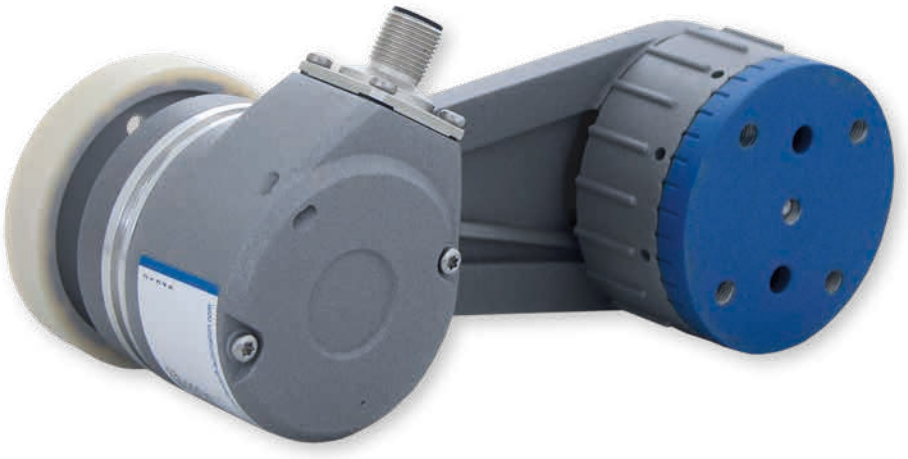
wachendorff-automation.com/lmsma

Space-saving and reliable complete system for position, speed and length

Up to 0.008 mm/pulse for excellent measurement results

Suitable for any surface

Quickly mounted and adjusted



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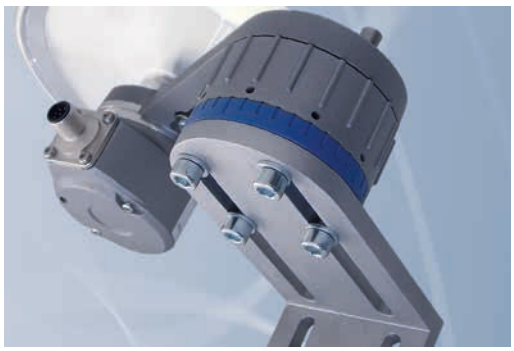
LISTED

Industrie ROBUST



Positions, speeds, travel lengths
... measure reliably and precisely

For over 25 years, Wachendorff Automation has developed and manufactured systems and rotary encoders for worldwide use in the areas of mechanical and plant construction, lift construction, mobile machinery and renewable energies.

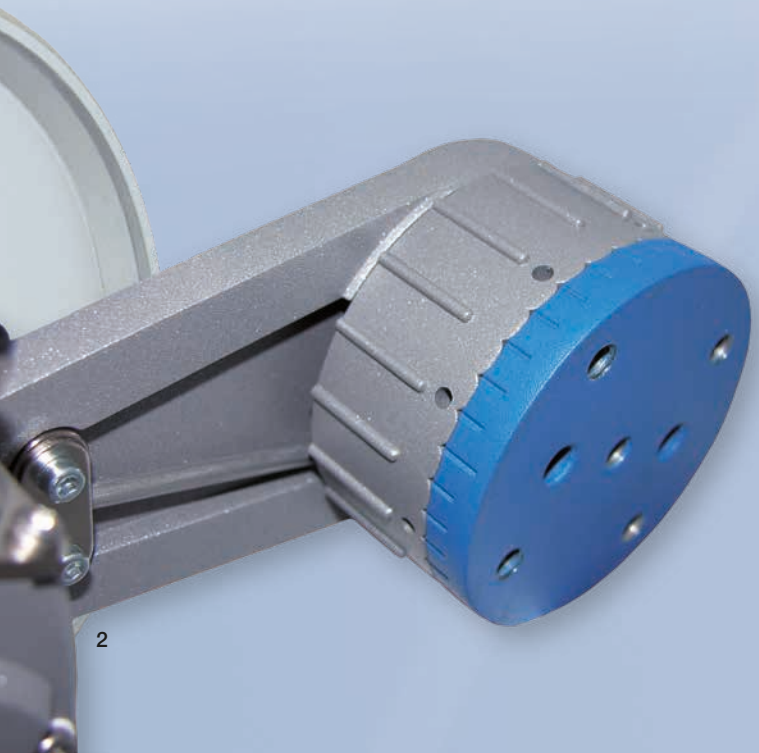
More than 1,500 realised customer variants demonstrate our flexibility and absolute focus on the customer's needs. Owing to the high mechanical and electrical stability of our rotary encoders and systems, we provide a five-year warranty – which is unique in the world!

We support you right from the construction phase. Our strength lies in precisely matched lengths and position measuring systems for your measurement task.

With these systems, the positions, speeds and travel lengths of conveyor belts, film/paper webs or cardboard packaging, for example, can be recorded safely and efficiently.

We meet the highest requirements in an ideal way with the LMSMA2x/3x measuring systems:

- Constant and accurate measurement results through optimal, low-slip measurement in the most varied conditions arising from:
  - Adjustable pressure
  - Coordinated measuring wheels for every surface
  - Selectable resolutions from 1.0 to 0.008 mm/pulse.
- Small space requirement thanks to its compact design.
- Long service lifetimes thanks to the high mechanical robustness of all the components.
- Fast and flexible mounting on the machine.



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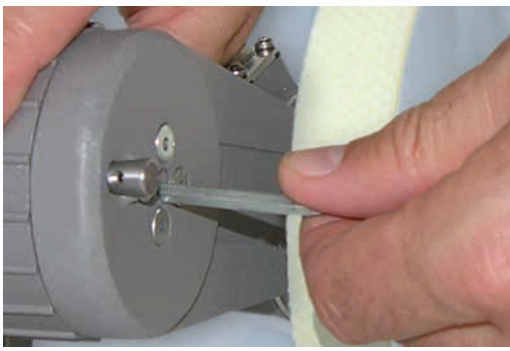

Experience is in the detail
... save time with a system

We have significantly optimised the adjustment possibilities of the whole system, which is based on a spring arm with a central spring. This gives you constructive and valuable benefits:

Now 36 alignment positions
The newly developed hand wheel with its 10° resolution levels allows for 36 alignment positions.
In combination with the elongated holes of the angle bracket, you get much more room for the installation.

Easily adjustable preload
With the new systems, the spring preload is adjustable in steps from 5 N to a maximum of 30 N preload.

Calibration without disassembly
The preassembled systems for installation in the machine or readjustment during commissioning remain mounted.

Fixation in resting position
During machine setup or maintenance in particular, it is possible that the length measuring system is not designed to run.
The LMSMA systems offer the possibility to fix the spring arm in a resting position. The spring arm is then returned to the working position and continues to work at the previously set pressure.

You will see that there are a number of good reasons for using the LMSMA length measuring systems.

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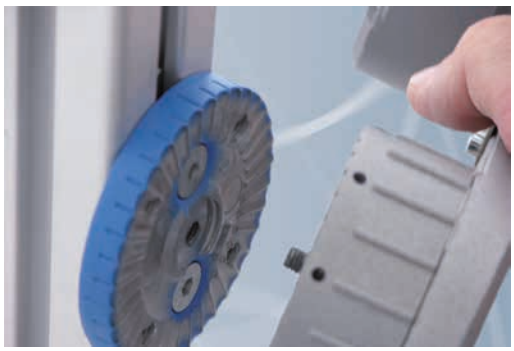
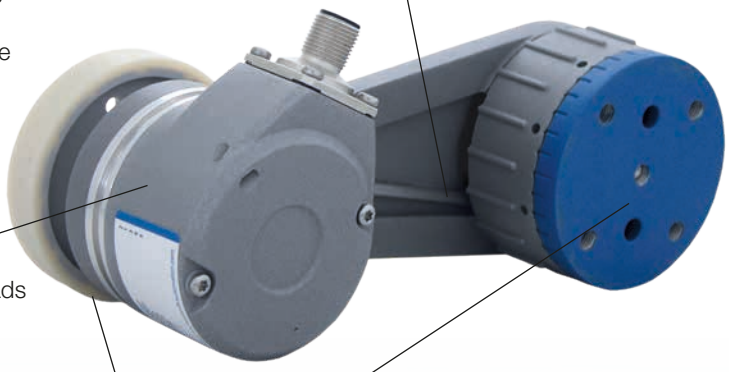
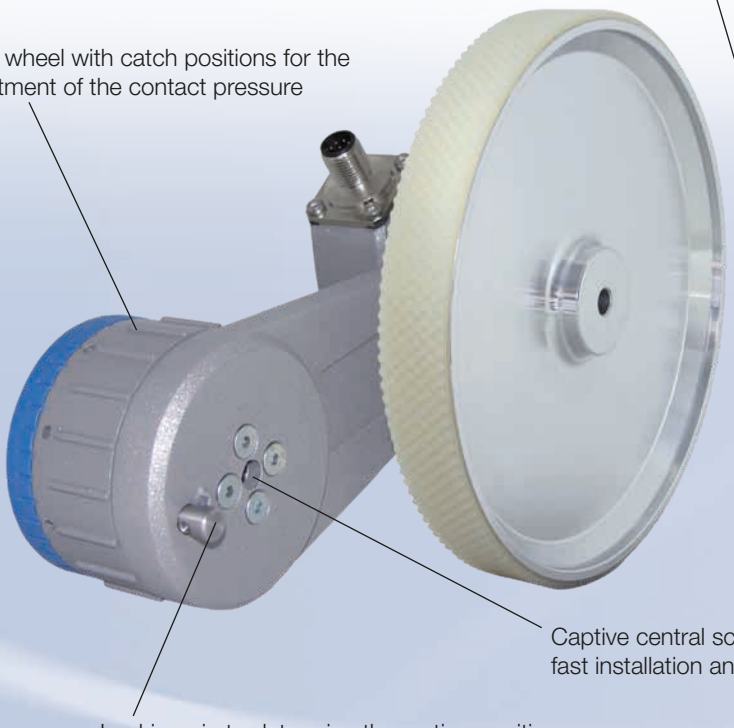


Quickly mounted – directly on the machine
... the LMSMA2x length measuring system

To assemble, simply loosen the base plate from the hand wheel and attach it to the machine at the position defined by you. The dimensions of the holes in the blue base plate are adapted to the current attachment profiles on the market. The captive central screw enables the measuring system to connect to the base plate. Now simply adjust the preload and tighten the central screw. Job done!





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LMSMA22 length measuring system (measuring wheel U = 200 mm / without angle bracket)

mm/pulses	Pulses	**LMSMA22100024KH10**	LMSMA22100005KH10	LMSMA22100024KG10	LMSMA22100005KG10	LMSMA22100024NG10	LMSMA22100005NG10	**LMSMA22010024KH10**	LMSMA22010005KH10	LMSMA22010024KG10	LMSMA22010005KG10	LMSMA22010024NG10	LMSMA22010005NG10	**LMSMA22004024KH10**	LMSMA22004005KH10	LMSMA22004024KG10	LMSMA22004005KG10	LMSMA22004024NG10	LMSMA22004005NG10	**LMSMA22000824KH10**	LMSMA22000805KH10	LMSMA22000824KG10	LMSMA22000805KG10	LMSMA22000824NG10	LMSMA22000805NG10
1.0	200	•	•	•	•	•	•																		
0.1	2000							•	•	•	•	•	•												
0.04	5000													•	•	•	•	•	•						
0.008	25000																			•	•	•	•	•	•
VDC																									
10 up to 30 HTL		•		•		•		•		•		•		•		•		•		•		•		•	
4.75 up to 5.5 TTL			•		•		•		•		•		•		•		•		•		•		•		•
Range of appl.*		1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3

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LMSMA25 length measuring system (measuring wheel U = 500 mm / without angle bracket)

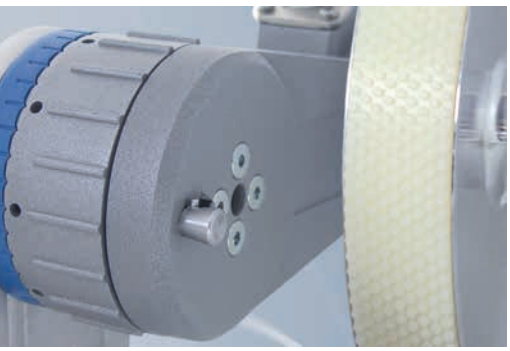
mm/pulses	Pulses	**LMSMA25100024KH10**	LMSMA25100005KH10	LMSMA25100024KG10	LMSMA25100005KG10	LMSMA25100024NG10	LMSMA25100005NG10	**LMSMA25010024KH10**	LMSMA25010005KH10	LMSMA25010024KG10	LMSMA25010005KG10	LMSMA25010024NG10	LMSMA25010005NG10	**LMSMA25004024KH10**	LMSMA25004005KH10	LMSMA25004024KG10	LMSMA25004005KG10	LMSMA25004024NG10	LMSMA25004005NG10	**LMSMA25002024KH10**	LMSMA25002005KH10	LMSMA25002024KG10	LMSMA25002005KG10	LMSMA25002024NG10	LMSMA25002005NG10
1,0	500	•	•	•	•	•	•																		
0.1	5000							•	•	•	•	•	•												
0.04	12500													•	•	•	•	•	•						
0.02	25000																			•	•	•	•	•	•
VDC																									
10 up to 30 HTL		•		•		•		•		•		•		•		•		•		•		•		•	
4.75 uo to 5.5 TTL			•		•		•		•		•		•		•		•		•		•		•		•
Range of appl.*		1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3

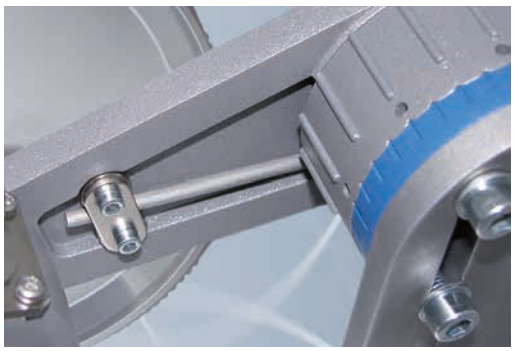
www.wachendorff-automation.com/lmsma25

Range of application of the measuring wheels U = 200 mm / 500 mm

	*1	*2	*3
Measuring wheel			
Systems	LMSxxxKH	LMSxxxKG	LMSxxxNG
Range of appl.	Plastic, painted surfaces, paper, paste-board, wood, metal, textiles.	Plastic, painted surfaces, paper, paste-board, wood, metal, textiles.	Textiles.

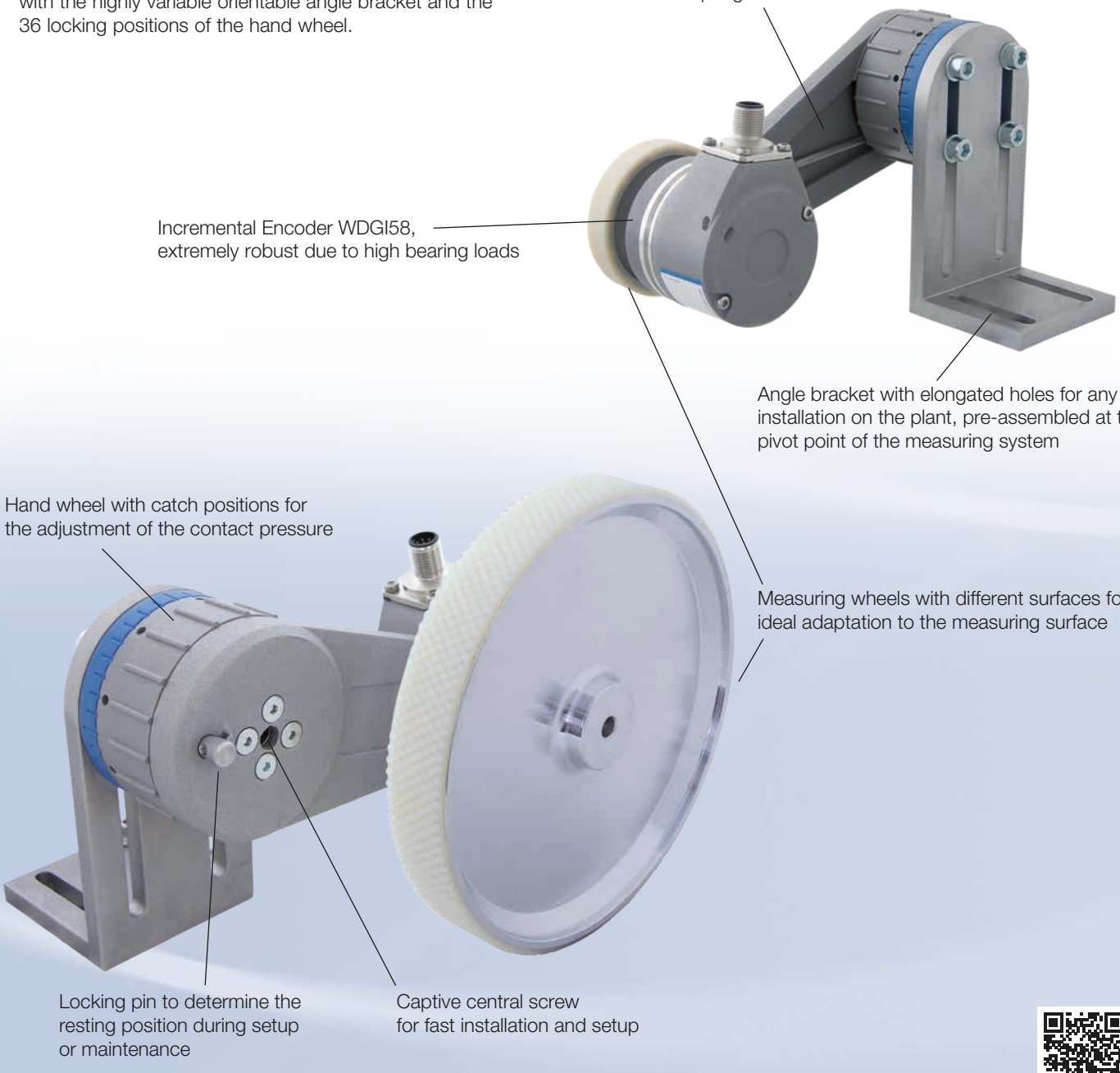
Does your application require other resolutions or pulse counts, measuring wheels, cable lengths or other accessories?
Contact us. We are happy to help you find the optimal solution.





Easily mountable – with pre-assembled angle
... the LMSMA3x length measuring system

If direct mounting is not possible at the plant, we have a solution for it. Varied mounting positions are possible with the highly variable orientable angle bracket and the 36 locking positions of the hand wheel.



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LMSMA32 length measuring system (measuring wheel U = 200 mm / with angle bracket)

mm/pulses	Pulses	LMSMA32100024KH10	LMSMA32100005KH10	LMSMA32100024KG10	LMSMA32100005KG10	LMSMA32100024NG10	LMSMA32100005NG10	LMSMA32010024KH10	LMSMA32010005KH10	LMSMA32010024KG10	LMSMA32010005KG10	LMSMA32010024NG10	LMSMA32010005NG10	LMSMA32004024KH10	LMSMA32004005KH10	LMSMA32004024KG10	LMSMA32004005KG10	LMSMA32004024NG10	LMSMA32004005NG10	LMSMA32000824KH10	LMSMA32000805KH10	LMSMA32000824KG10	LMSMA32000805KG10	LMSMA32000824NG10	LMSMA32000805NG10
1.0	200	•	•	•	•	•	•																		
0.1	2000							•	•	•	•	•	•												
0.04	5000													•	•	•	•	•	•						
0.008	25000																			•	•	•	•	•	•
VDC																									
10 up to 30 HTL		•		•		•		•		•		•		•		•		•		•		•		•	
4.75 up to 5.5 TTL			•		•		•		•		•		•		•		•		•		•		•		•
Range of appl.*		1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3

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LMSMA35 length measuring system (measuring wheel U = 500 mm / with angle bracket)

mm/pulses	Pulses	LMSMA35100024KH10	LMSMA35100005KH10	LMSMA35100024KG10	LMSMA35100005KG10	LMSMA35100024NG10	LMSMA35100005NG10	LMSMA35010024KH10	LMSMA35010005KH10	LMSMA35010024KG10	LMSMA35010005KG10	LMSMA35010024NG10	LMSMA35010005NG10	LMSMA35004024KH10	LMSMA35004005KH10	LMSMA35004024KG10	LMSMA35004005KG10	LMSMA35004024NG10	LMSMA35004005NG10	LMSMA35002024KH10	LMSMA35002005KH10	LMSMA35002024KG10	LMSMA35002005KG10	LMSMA35002024NG10	LMSMA35002005NG10
1.0	500	•	•	•	•	•	•																		
0.1	5000							•	•	•	•	•	•												
0.04	12500													•	•	•	•	•	•						
0.02	25000																			•	•	•	•	•	•
VDC																									
10 up to 30 HTL		•		•		•		•		•		•		•		•		•		•		•		•	
4.75 up to 5.5 TTL			•		•		•		•		•		•		•		•		•		•		•		•
Range of appl.*		1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3	1	1	2	2	3	3

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Range of application of the measuring wheels U = 200 mm / 500 mm

	*1	*2	*3
Measuring wheel			
System	LMSxxxKH	LMSxxxKG	LMSxxxNG
Range of appl.	Cardboard, wood, soft plastics, textiles, leather, paper, wire, steel sections, greased metals and painted surfaces.	Cardboard, wood, soft plastics, textiles, rubber.	Cardboard, wood, plastics, coarse textiles, carpet, cable measurement, fleece, paper.

Does your application require other resolutions or pulse counts, measuring wheels, cable lengths or other accessories?
Contact us. We are happy to help you find the optimal solution.

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Wachendorff – The Encoder Experts

- Rugged industrial encoders
- Complete systems
- Standard range and customer versions
- Maximum permissible loads
- Express production
- Made in Germany
- Worldwide distributor network

We are an owner-managed, medium-sized company based in the Rheingau, west of Wiesbaden.
Competent, personal, face-to-face advice and long-term collaboration with our distributors are the cornerstones of our continual growth.

Wachendorff Automation GmbH & Co. KG
The development and manufacturing of rotary encoders and complete measuring systems for use in a wide range of serial production applications in mechanical and plant engineering. An extensive standard range featuring numerous options and efficient development of customised solutions.

The optimum combination of electronics, optics and mechanics in the devices make every encoder into one of the most robust and most reliable devices on the market. High levels of protection, an extended temperature range and durable electronics enable our products to be used in even the most demanding applications.

WACHENDORFF
The Encoder Experts

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2026

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