WACHENDORFF
Automation GmbH & Co. KG

Precise positioning
with the LMS MA

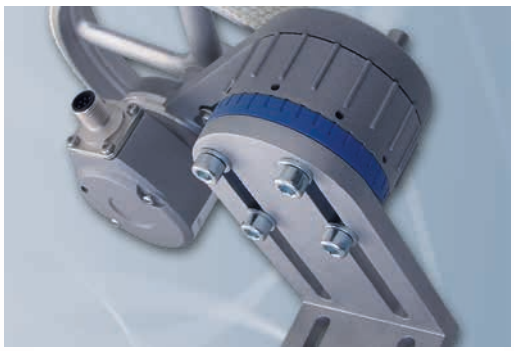


- Space-saving and reliable complete system for position, speed and length
- Up to 0.008 mm/pulse for excellent measurement results
- Suitable for any surface
- Quickly mounted and adjusted

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LISTED

IndustrieROBUST







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.

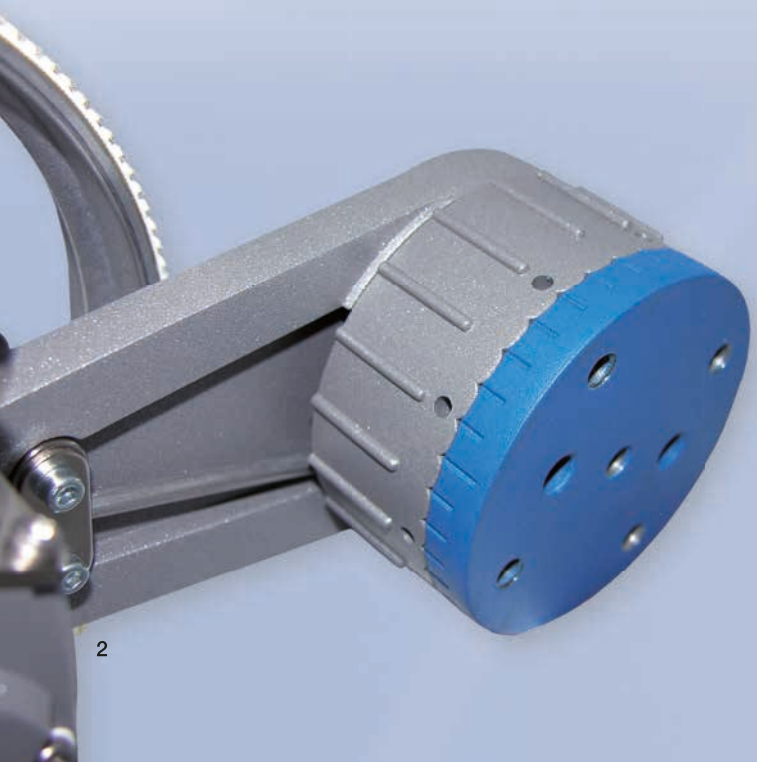
More than 1,500 realised customer variants demonstrate our flexibility and absolute focus on the customer's needs. Owing to the high mechanical and electrical stability of our rotary encoders and systems, we provide a five-year warranty – which is unique in the world!

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:

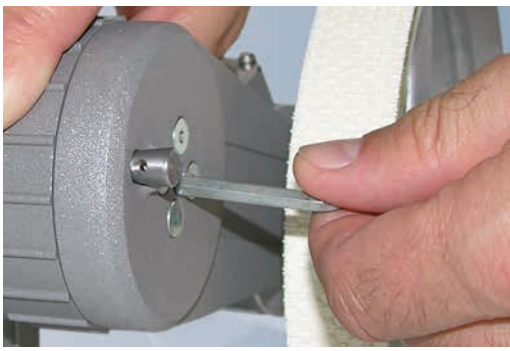
- Constant and accurate measurement results through optimal, low-slip measurement in the most varied conditions arising from:
  - Adjustable pressure
  - Coordinated measuring wheels for every surface
  - Selectable resolutions from 1.0 to 0.008 mm/pulse.
- Small space requirement thanks to its compact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



www.wachendorff-automation.com/lms







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.

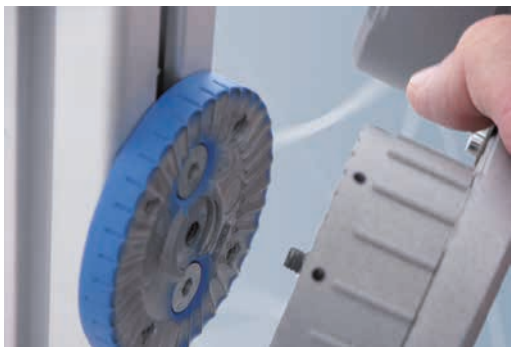
Fixation in resting position
During machine setup or maintenance in particular, it is possible that the length measuring system is not designed to run.
The LMSMA systems offer the possibility to fix the spring arm in a resting position. The spring arm is then returned to the working position and continues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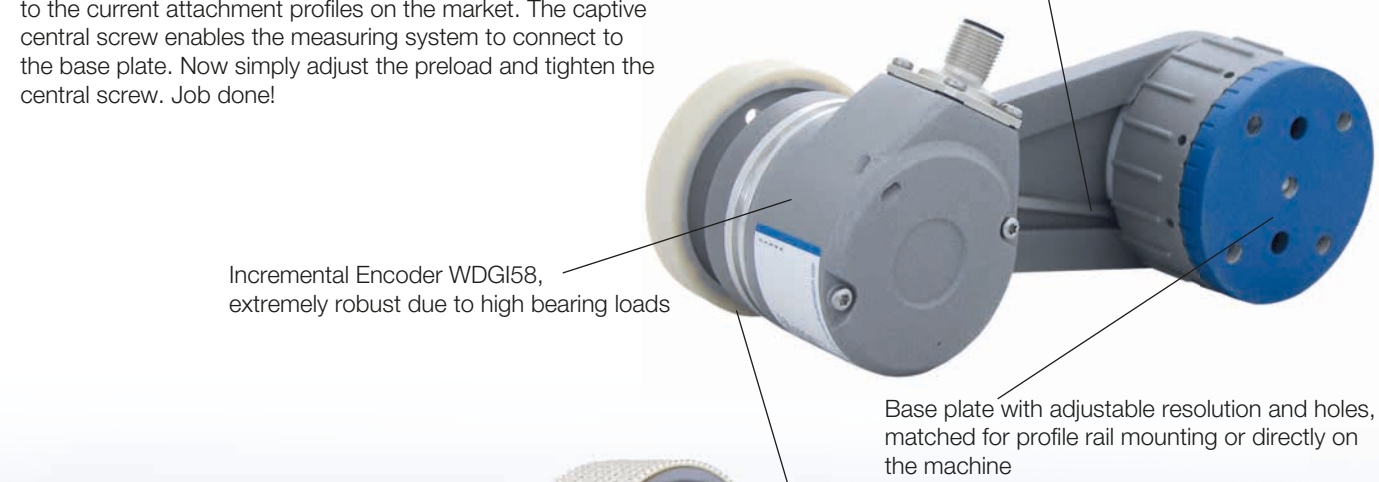


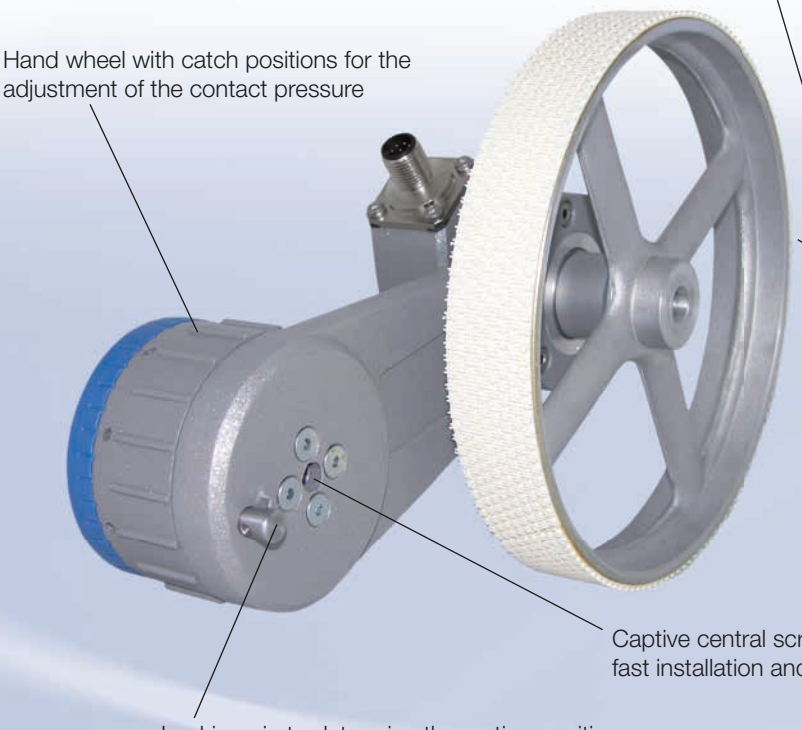




Quickly mounted – directly on the machine
... the LMSMA2x length measuring system

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	LMSMA2210002 4KH10	LMSMA2210005KH10	LMSMA2210002 4KG10	LMSMA2210005KG10	LMSMA2210002 4NG10	LMSMA2210005NG10	LMSMA2201002 4KH10	LMSMA2201005KH10	LMSMA2201002 4KG10	LMSMA2201005KG10	LMSMA2201002 4NG10	LMSMA2201005NG10	LMSMA2200402 4KH10	LMSMA2200405KH10	LMSMA2200402 4KG10	LMSMA2200405KG10	LMSMA2200402 4NG10	LMSMA2200405NG10	LMSMA2200082 4KH10	LMSMA2200805KH10	LMSMA2200082 4KG10	LMSMA2200805KG10	LMSMA2200082 4NG10	LMSMA2200805NG10
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

www.wachendorff-automation.com/lmsma22

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



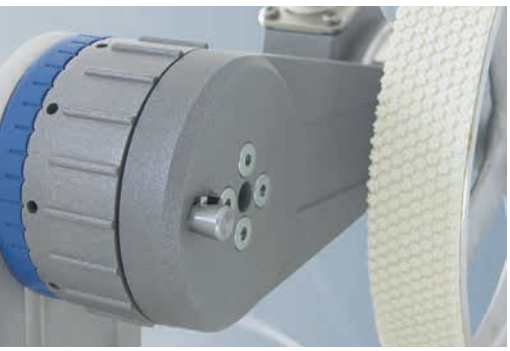
mm/pulses	Pulses	LMSMA2510002 4KH10	LMSMA2510005KH10	LMSMA2510002 4KG10	LMSMA2510005KG10	LMSMA2510002 4NG10	LMSMA2510005NG10	LMSMA2501002 4KH10	LMSMA2501005KH10	LMSMA2501002 4KG10	LMSMA2501005KG10	LMSMA2501002 4NG10	LMSMA2501005NG10	LMSMA2500402 4KH10	LMSMA2500405KH10	LMSMA2500402 4KG10	LMSMA2500405KG10	LMSMA2500402 4NG10	LMSMA2500405NG10	LMSMA2500202 4KH10	LMSMA2500205KH10	LMSMA2500202 4KG10	LMSMA2500205KG10	LMSMA2500202 4NG10	LMSMA2500205NG10
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.

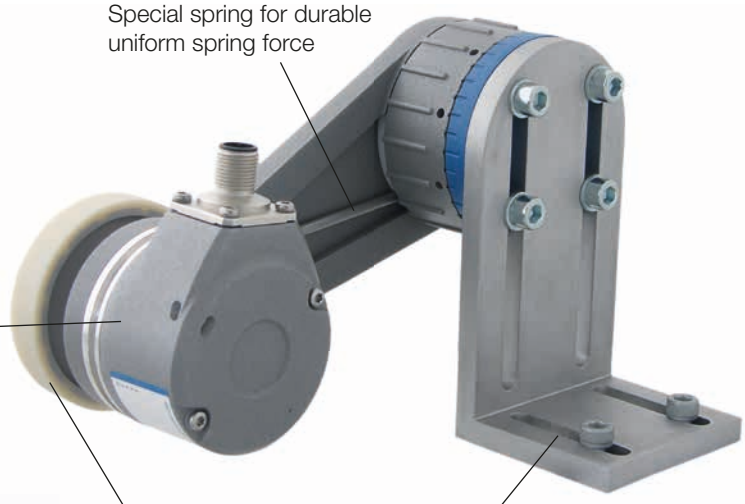


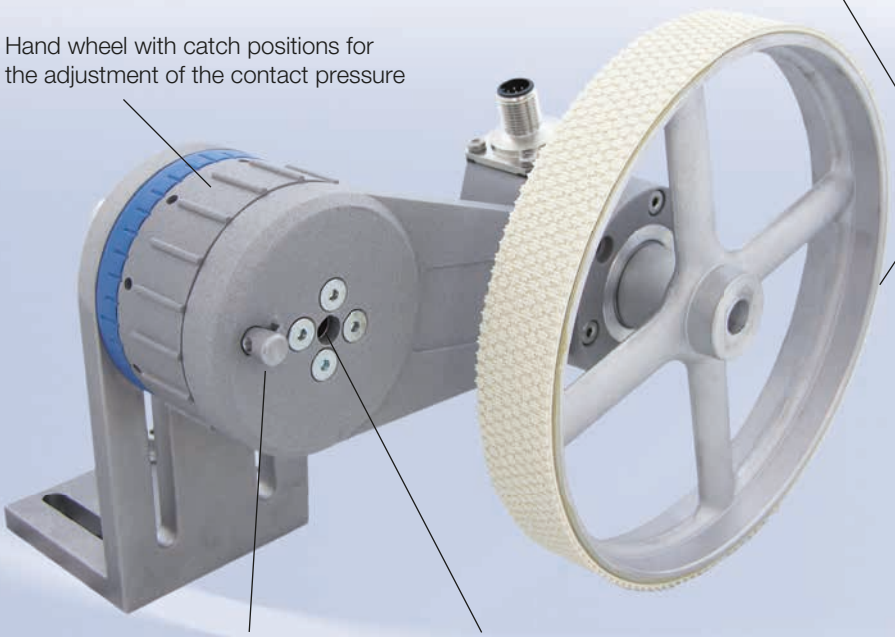




Easily mountable – with pre-assembled angle
... the LMSMA3x length measuring system

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	LMSMA321000**24KH10**	LMSMA321000**05KH10**	LMSMA321000**24KG10**	LMSMA321000**05KG10**	LMSMA321000**24NG10**	LMSMA321000**05NG10**	LMSMA320100**24KH10**	LMSMA320100**05KH10**	LMSMA320100**24KG10**	LMSMA320100**05KG10**	LMSMA320100**24NG10**	LMSMA320100**05NG10**	LMSMA320040**24KH10**	LMSMA320040**05KH10**	LMSMA320040**24KG10**	LMSMA320040**05KG10**	LMSMA320040**24NG10**	LMSMA320040**05NG10**	LMSMA320008**24KH10**	LMSMA320008**05KH10**	LMSMA320008**24KG10**	LMSMA320008**05KG10**	LMSMA320008**24NG10**	LMSMA320008**05NG10**
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

www.wachendorff-automation.com/lmsma32

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



mm/pulses	Pulses	LMSMA351000**24KH10**	LMSMA351000**05KH10**	LMSMA351000**24KG10**	LMSMA351000**05KG10**	LMSMA351000**24NG10**	LMSMA351000**05NG10**	LMSMA350100**24KH10**	LMSMA350100**05KH10**	LMSMA350100**24KG10**	LMSMA350100**05KG10**	LMSMA350100**24NG10**	LMSMA350100**05NG10**	LMSMA350040**24KH10**	LMSMA350040**05KH10**	LMSMA350040**24KG10**	LMSMA350040**05KG10**	LMSMA350040**24NG10**	LMSMA350040**05NG10**	LMSMA350020**24KH10**	LMSMA350020**05KH10**	LMSMA350020**24KG10**	LMSMA350020**05KG10**	LMSMA350020**24NG10**	LMSMA350020**05NG10**
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.

www.wachendorff-automation.com



The Wachendorff Group

- Delighted customers
- Corporate responsibility
- Attractive for good employees
- Outstanding quality
- Technology leader
- Environmental protection
- Profitable growth

We are a medium-sized owner-managed corporate group based in the beautiful Rheingau district, situated to the west of Wiesbaden.

Competent, personal, face-to-face advice and long-term collaboration with our business partners are the cornerstones of our continual growth. We are certified according to DIN ISO 9001 and DIN ISO 14001.

Wachendorff Automation GmbH & Co. KG
The development and manufacturing of rotary encoders, engine feedback devices 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.

Wachendorff Prozesstechnik GmbH & Co. KG
A reliable supplier since 1978 of robust, high quality industrial devices for visualizing, communicating and processing data in the areas of mechanical, plant and building automation.

WACHENDORFF

Wachendorff Automation GmbH & Co. KG
Industriestrasse 7 • D-65366 Geisenheim

Tel.: +49 (0) 67 22 / 99 65 - 25
Fax: +49 (0) 67 22 / 99 65 - 70
E-Mail: wdg@wachendorff.de
www.wachendorff-automation.com

2018

Your distributor:

NTK Ipari-Elektronikai és Kereskedelmi Kft.

H-9027 Győr, Gesztenyefa út 4.
Telefon: +36 96 523 268
Fax: +36 96 430 011
e-mail: info@ntk-kft.hu
web: www.ntk-kft.hu