

Length measurement system LMSMA22 conical www.wachendorff-automation.com/lmsma22-conical

Wachendorff Automation

... systems and encoders

- Complete systems
- · Industrial rugged encoders to suit your application
- · Standard range and customer versions
- · Maximum permissible loads
- 48-hour express production
- Made in Germany
- Worldwide distributor network



Robust length measurement system LMSMA22 with measuring wheel KW (conical)



- Compact system with new spring-loaded arm, including special encoder and 200 mm measuring wheel KW
- Up to 0.008 mm/impulse for measurement results
- Suitable for many surfaces
- Absorbent mounting
- Contact pressure easily adaptable by intelligent central adjustment
- Versatile mounting (e.g. mounting profile)

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Resolution encoder with		
200 ppr:	1 pulse/mm = 1.0 mm/pulse	
2000 ppr:	10 pulses/mm = 0.1 mm/pulse	
5000 ppr:	25 pulses/mm = 0.04 mm/pulse	
25000 ppr:	125 pulses/mm = 0.008 mm/pulse	

Mechanical Data of the system modules		
Housing encoder	_	
Flange	clamping flange	
Flange material	aluminium	
Housing cap	die cast aluminum, powder coated	
Shaft(s)	_	
Shaft material	stainless steel	
Starting torque	approx. 1 Ncm at ambient temperature	
Shaft	conical	
Shaft length	L: 20 mm	
Max. permissible shaft loading radial	220 N	
Max. permissible shaft loading axial	120 N	
Bearings	_	
Max. operating speed	8000 rpm	

Spring loaded arm	_
Adjustable prestressing force	0 N up to 30 N in steps of 5 N
Length of spring lever axis	120 mm
Material	die cast aluminum
Interlock	Spring loaded arm can be interlocked at 100° to start position
Contact pressure	adjustable, 10°-step equates 5 N pressure increase

Machinery Directive: basic data safety integrity level	
MTTF _d	200 a
Mission time (T _м)	25 a
Nominale service life (L10h)	1 x 10 ¹¹ revs. at 20 % rated shaft load and 8000 rpm
Diagnostic coverage (DC)	0 %

Electrical Data	
Power supply/ Current consumption	4.75 VDC up to 5.5 VDC: max. 100 mA 10 VDC up to 30 VDC: max. 100 mA
Output circuit	TTL, HTL
Channels	ABN and inverted signals
Load	max. 40 mA / channel
Circuit protection	10 VDC up to 30 VDC, HTL only

Accuracy	_
Phase offset	90° ± max. 7,5 % of the pulse length
pulse-/pause-ratio	50 % ± max. 7 %

General Data	
Weight	approx. 880 g
Connection	Connector radial
Protection rating (EN 60529)	IP67, shaft sealed to IP65
Operating temperature	
LMSxxxKW:	-30 °C up to +80 °C

Measuring wheel U = 200 mm



MRA200KW:

Range of application: greased metals, steel profiles, laquered surfaces, synthetics, paper, paperboard, wood, textiles, wire, leather

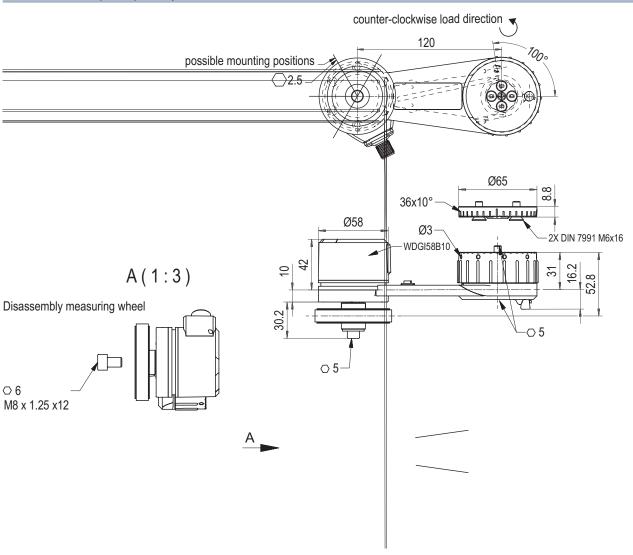
Other features / characteristics:

Optimum wear values under high mechanical loads. Load High resistance to oils, fuels, ozone and weathering.



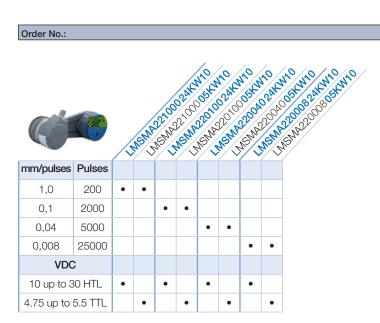


Sensor-connector (M12x1) SC, 8-pin





Order No.:



Measuring wheel U = 200 mm MRA200KW:

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For further assistance please feel free to contact us.

We would be happy to help you to find the suitable resolution, measurement wheel, cable length or other accessory to optimize your application.





For further information please contact our local distributor. Here you find a list of our distributors worldwide. http://www.wachendorff-automation.com/distributors_worldwide.html



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

