

Length measurement system LMSMA32 conical www.wachendorff-automation.com/lmsma32-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 LMSMA32 with measuring wheel KW (conical)



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)

Shart(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

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	

8000 rpm

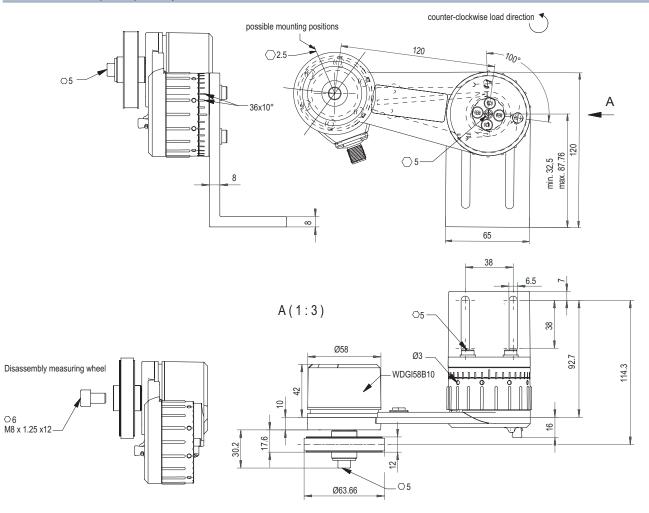
- Compact system with new spring-loaded arm, including special encoder and 200 mm measuring wheel
- Up to 0.008 mm/impulse for measurement results
- Suitable for many surfaces
- Absorbent mounting
- Contact pressure easily adaptable by intelligent central adjustment
- Easy to dismantle through pre-assembled angle bracket

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MTTF_ Mission time (T_)	200 a	
	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/	4.75 VDC up to 5.5 VDC: max. 100 mA	
Current consumption	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	
Δουιταον		
Accuracy Phase offset	00° , may 7.5 % of the pulse length	
	$90^{\circ} \pm \text{max}$. 7.5 % of the pulse length	
pulse-/pause-ratio	50 % ± max. 7 %	
General Data		
Weight	approx. 1100 g	
Connection	Connector radial	
Protection rating (EN 60529)	IP67, shaft sealed to IP65	
Operating temperature		
MSxxxKW:	-30 °C up to +80 °C	
Measuring wheel U = 200 r	nm	
MRA200KW:	Range of application: greased metals,	
(even)	steel profiles, laquered surfaces,	
	synthetics, paper, paperboard, wood,	
	textiles, wire, leather	
Other features / characteric		
Other features / characteris	high mechanical loads	
Optimum wear values under l		
Optimum wear values under l		
Optimum wear values under h Load High resistance to oils, t	fuels, ozone and weathering.	
Optimum wear values under h Load High resistance to oils, t More information	fuels, ozone and weathering. afety incremental encoders	



Sensor-connector (M12x1) SC, 8-pin

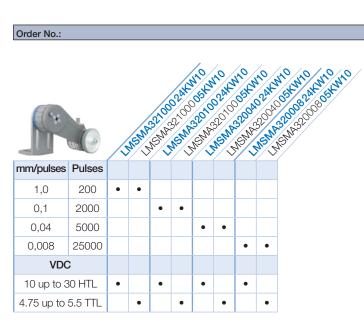


Description

SC8 radial, 8-pin, connector connected to encoder housing

	SC8
	8-pin
Circuit	P05, R05, P24, R24
GND	1
+UB	2
Α	3
В	4
N	5
Light reserve warning	-
A inv.	6
B inv.	7
N inv.	8
n. c.	-
Shield	-





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.we

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

