

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

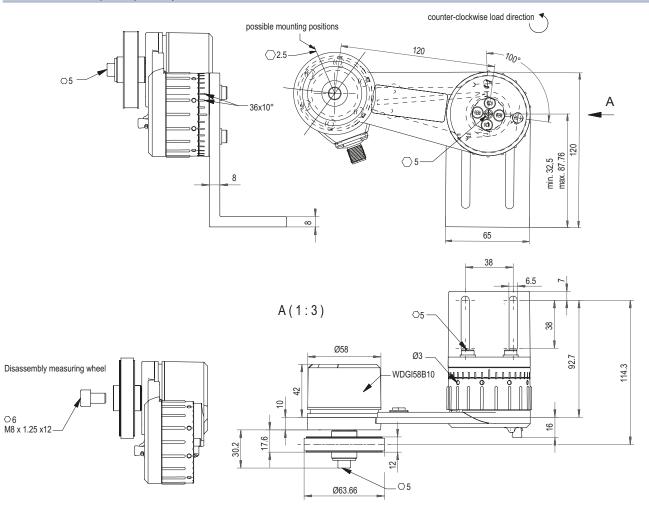
- Compact system with new spring-loaded arm, including special encoder and 200 mm measuring wheel
- Up to 0.008 mm/impulse for measurement results
- Suitable for many surfaces
- Absorbent mounting
- Contact pressure easily adaptable by intelligent central adjustment
- Easy to dismantle through pre-assembled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

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MTTE	data safety integrity level				
u	200 a 25 a				
Mission time (T _w) Nominale service life (L10h)	1 x 10 ¹¹ revs. at 20 % rated shaft load				
Norminale service life (L101)	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				
Accuracy					
Phase offset	$90^{\circ} \pm \text{max}$. 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					
LMSxxxKW:	-30 °C up to +80 °C				
Measuring wheel U = 200 n					
MRA200KW:	Range of application: greased metals,				
(even)	steel profiles, laquered surfaces,				
	synthetics, paper, paperboard, wood, textiles, wire, leather				
Other features / characteris					
Optimum wear values under high mechanical loads.					
Optimum wear values under h	Load High resistance to oils, fuels, ozone and weathering.				
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Sensor-connector (M12x1) SC, 8-pin

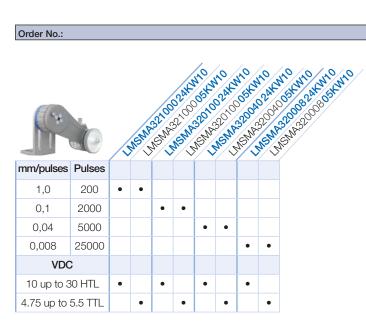


Description

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

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

Order No.:



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.

https://www.wachendorff-automation.com/contact-sales-en/



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