

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)



- 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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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

	tem 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)	1×10^{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. 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 mm



MRA200KW:

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

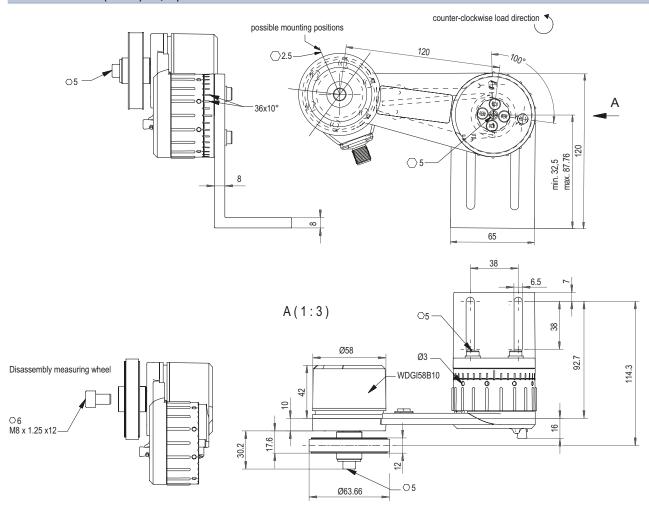
Other features / characteristics:

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





Sensor-connector (M12x1) SC, 8-pin



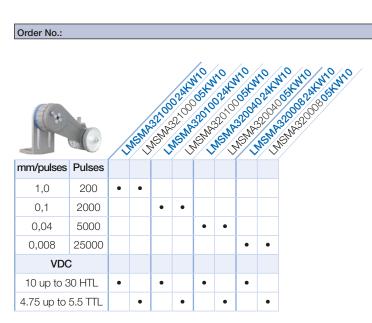
Description

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

Assignment		
	SC8	
	8-pin	
	3-4-8-5	
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	-	



Order No.:



Measuring wheel U = 200 mm MRA200KW:

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The length measuring system is also available without a mounting bracket. Order number: LMSMA22xxxxxxKW10

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/

WACHENDORFF

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