

Length measurement system LMSMA32 www.wachendorff-automation.com/lmsma32

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



- Compact system with new spring-loaded arm, including WDGI 58B 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 WDGI 58B10 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	

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Flange material	aluminium
Housing cap	die cast aluminum, powder coated
Shaft(s)	
Shaft material	stainless steel
Starting torque	approx. 1 Ncm at ambient temperature
Starting torque	approx. 1 Ncm at ambient temperature
Starting torque Shaft	approx. 1 Ncm at ambient temperature Ø 10 mm shaft with flat

Shaft	Ø 10 mm shaft with flat
Shaft length	L: 20 mm
Max. permissible shaft loading radial	220 N
Max. permissible shaft loading axial	120 N

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 _M)	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 %

approx. 1100 g	
Connector radial	
9) IP67, shaft sealed to IP65	
-10 °C up to +70 °C	
-10 °C up to +70 °C	
-30 °C up to +85 °C	
-10 °C up to +50 °C	

Connection	Connector radial	
Protection rating (EN 60529)	IP67, shaft sealed to IP65	
Operating temperature		
LMSxxxKH:	-10 °C up to +70 °C	
LMSxxxKG:	-10 °C up to +70 °C	
LMSxxxKR:	-30 °C up to +85 °C	
LMSxxxNG:	-10 °C up to +50 °C	
Range of application measuring wheel U = 200 mm		

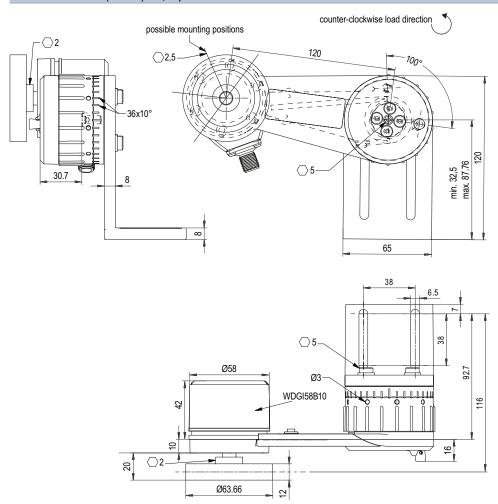
Range of application measuring wheel U = 200 mm		
(30)	LMSxxxKH: (even)	Plastic, painted surfaces, paper, paste- board, wood, metal, textiles.
00/	LMSxxxKG: (fluted)	Plastic, painted surfaces, paper, paste- board, wood, metal, textiles.
	LMSxxxKR: (Metal, knurled)	Pasteboard, wood, textiles.
39	LMSxxxNG: (pimpled)	Textiles.

More information
General technical data and safety incremental encoders www.wachendorff-automation.com/gtd
Options www.wachendorff-automation.com/acc

Customs tariff number: 90318020 Country of origin: Germany



Sensor-connector (M12x1) SC, 8-pin

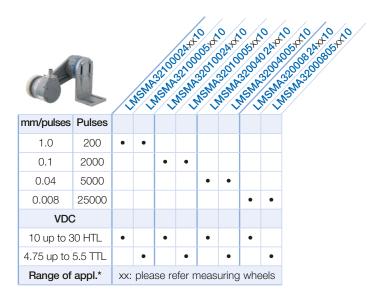


Description

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.:



* Range of application measuring wheel U = 200 mm

xx = **KH**: Plastic, painted surfaces, paper, pasteboard, wood, metal, textiles. **xx** = **KG**: Plastic, painted surfaces, paper, pasteboard, wood, metal, textiles.

xx = KR: Pasteboard, wood, textiles.

xx = NG: Textiles.

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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