

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

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



- 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
- Versatile mounting (e.g. mounting profile)

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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	
Housing cap	die cast aluminum, powder coated	
Shaft(s)		
Shaft material	stainless steel	
Starting torque	approx. 1 Ncm at ambient temperature	
Shaft	Ø 10 mm shaft with flat	
Shaft length	L: 20 mm	
Max. permissible shaft	220 N	
loading radial		
Max. permissible shaft loading axial	120 N	

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

Bearings

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/	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° ± max. 7,5 % of the pulse length
pulse-/pause-ratio	50 % ± max. 7 %
General Data	
Weight	approx. 880 g
Connection	Connector radial

General Data	
Weight	approx. 880 g
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

LIVIOXXXIVG.	10 0 up to +00 0
Range of application measure	suring wheel U = 200 mm
I MSvvvKH:	Plastic nainted surfaces nan-



lastic, painted surfaces, paper, paste-(even) board, wood, metal, textiles.

Plastic, painted surfaces, paper, paste-



(fluted) board, wood, metal, textiles.

Pasteboard, wood, textiles.



(Metal, knurled)



LMSxxxNG: Textiles. (pimpled)

LMSxxxKR:

More information

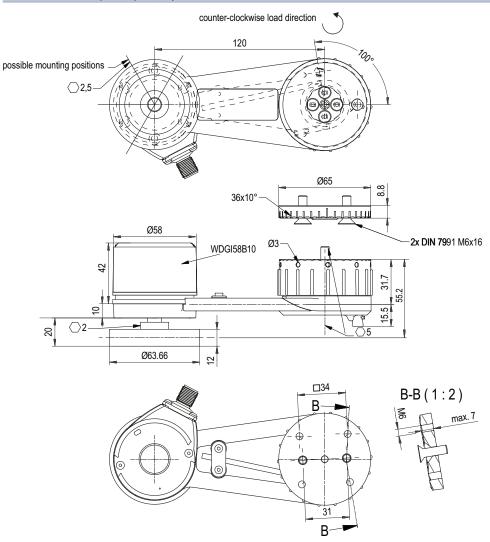
General technical data and safety incremental encoders www.wachendorff-automation.com/gtd

www.wachendorff-automation.com/acc

Customs tariff number: 90318020 Country of origin: Germany



Sensor-connector (M12x1) SC, 8-pin

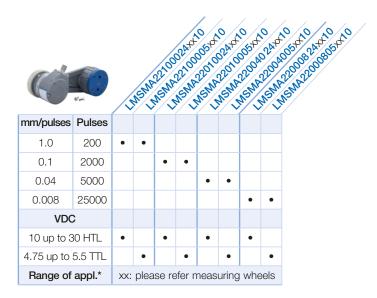


Description

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

Plastic, painted surfaces, paper, pasteboard, wood, metal, textiles. xx = KH: LMS200KH xx = KG: LMS200KGPlastic, painted surfaces, paper, pasteboard, wood, metal, textiles.

xx = KR: LMS200KRPasteboard, wood, textiles.

xx = NG: LMS200NG

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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