

Length measurement system LMSMA35 www.wachendorff-automation.com/lmsma35

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 LMSMA35



- Compact system with new spring-loaded arm, including WDGI 58Z encoder and 500 mm measuring wheel
- Up to 0.02 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 58Z10 with	n	
500 ppr:	1 pulse/mm = 1.0 mm/pulse	
5000 ppr:	10 pulses/mm = 0.1 mm/pulse	
12500 ppr:	25 pulses/mm = 0.04 mm/pulse	
25000 ppr:	50 pulses/mm = 0.02 mm/pulse	
Mechanical Data of the system modules		
Housing encoder		
Flange	clamping flange	
Elanga material	aluminium	

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	120 N	
loading axial		

Spring loaded arm	_	
Adjustable prestresing 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	

8000 rpm

Bearings

Max. operating speed

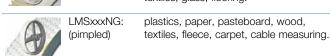
Machinery Directive: basic data safety integrity level			
MTTF _d	200 a		
Mission time (T _M)	25 a		
Nominale service life (L10h)	1 x 10 ¹¹ revs. at 20 % rated shaft load and 8000 rpm		
Diagnostic coverage (DC)	0 %		

5 N pressure increase

Floridad Bala		
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. 1250 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	
LMSxxxNG:	-10 °C up to +50 °C	

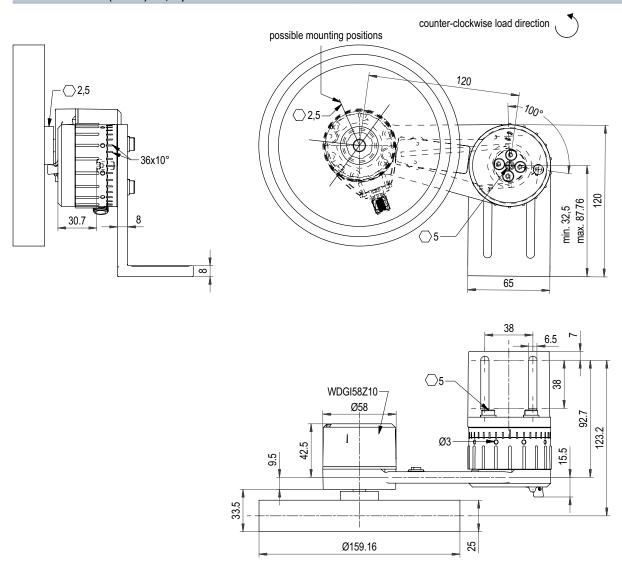
Range of application measuring wheel U = 200 mm LMSxxxKH: greased metal, steal profiles, painted (even) surfaces, plastics, paper, pasteboard, wood, textiles, leather, wire. LMSxxxKG: greased metal, painted surfaces, (fluted) plastics, paper, pasteboard, wood, textiles, glass, flooring.



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



Sensor-connector (M12x1) SC, 8-pin



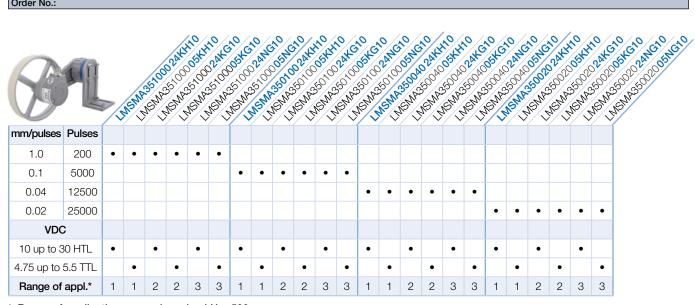
Description

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

Assignment	
	SC8
	8-pin
	3 4 8 5
Circuit	F05, R05, F24, 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 = 500 mm

- 1 LMSxxxKH Greased metal, steal profiles, painted surfaces, plastics, paper, pasteboard, wood, textiles, leather, wire.
- 2 LMSxxxKG Greased metal, painted surfaces, plastics, paper, pasteboard, wood, textiles, glass, flooring.
- 3 LMSxxxNG Plastics, paper, pasteboard, wood, textiles, fleece, carpet, cable measuring.

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



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