

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 58B 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 58B10 with				
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			
500 ppr:	1 pulse/mm = 25.4 pulses/inch			
5000 ppr:	10 pulses/mm = 254 pulses/inch			
12500 ppr:	25 pulses/mm = 635 pulses/inch			
25000 ppr:	50 pulses/mm = 1270 pulses/inch			

Mechanical Data of the syst	em 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 loading radial	220 N		
Max. permissible shaft loading axial	120 N		
n :			
Bearings	0000		
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		

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. 1250 g
Connection	Connector radial
Protection rating (EN 60529)	IP67, shaft sealed to IP65
0	

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			
LMSxxxKR:	-30 °C up to +85 °C			
LMSxxxNG:	-10 °C up to +50 °C			

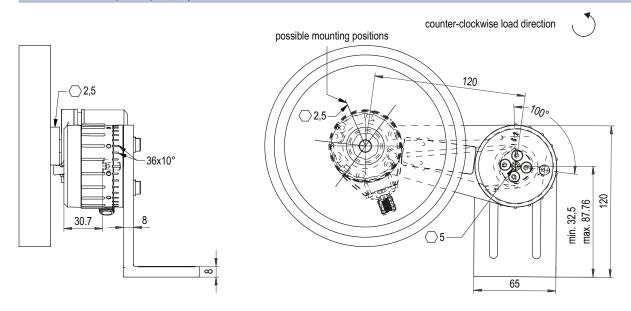
Range of ap	Range of application measuring wheel U = 500 mm				
	LMSxxxKH: (even)	Plastic, painted surfaces, paper, paste- board, wood, metal, textiles.			
6	LMSxxxKG: (fluted)	Plastic, painted surfaces, paper, paste- board, wood, metal, textiles.			
8	LMSxxxKR: (Metal, knurled)	Pasteboard, wood, textiles.			
0	LMSxxxNG: (pimpled)	Textiles.			

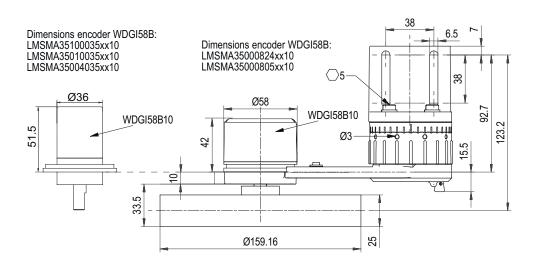
Machinery Directive: basic	data safety integrity level	General technical data www.wachendorff-au
MTTF _d	200 a	Options
Mission time (T _м)	25 a	www.wachendorff-au
Nominale service life (L10h)	1 x 10 ¹¹ revs. at 20 % rated shaft load and 8000 rpm	Customs tariff number Country of origin:
Diagnostic coverage (DC)	0 %	

More information and safety incremental encoders utomation.com/gtd utomation.com/acc er: 90318020

Germany

Sensor-connector (M12x1) SC, 8-pin





Description

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

Assignment			
	SC8		
	8-pin		
	3485		
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.:



Insulation and insulation of the state of th

mm/pulses	pulses/inch	Pulses					
1.0	25.4	500	•				
0.1	254	5000		•			
0.04	635	12500			•		
0.02	1270	25000				•	•
VDC							
4.75 up to 30 HTL (TTL at 5 VDC)		•	•	•			
10 up to 30 HTL					•		
4.75 up to 5,5 TTL						•	
Range of appl.*		xx: please refer measuring wheels					

* Range of application measuring wheel U = 500 mm

xx = KH: Plastic, painted surfaces, paper, pasteboard, wood, metal, textiles. $\mathbf{xx} = \mathbf{KG}$: Plastic, painted surfaces, paper, pasteboard, wood, metal, textiles.

xx = KR: Pasteboard, wood, textiles.

xx = NG: Textiles.

The length measuring system is also available without a mounting bracket. Order number: LMSMA25xxxxxxxx10

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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