



Datasheet

초소형 길이측정 엔코더-LMSCA22



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



관련 동영상 링크

Robust length measurement system LMSCA22



- 새로운 스프링암을 장착한 150mm 또는 200mm 측정 휠을 가진 초소형의 길이측정시스템 - WDG 36A 엔코더
- 최대 0.01mm/펄스
- 다양한 표면에 적합
- 외부충격/ 진동 흡수 가능
- 중앙나사조정으로 그리드 세팅 각도 손쉽게 조작가능

www.wachendorff-automation.com/lmsca22-wdgp

Resolution WDG 36A with

Measuring systems LMSxxxKH, LMSxxxKG, LMSxxxNG:

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
16000 ppr:	80 pulses/mm = 0.0125 mm/pulse

Measuring system LMSxxxGR:

150 ppr:	1 pulse/mm = 1.0 mm/pulse
1500 ppr:	10 pulses/mm = 0.1 mm/pulse
3750 ppr:	25 pulses/mm = 0.04 mm/pulse
15000 ppr:	100 pulses/mm = 0.01 mm/pulse

Mechanical Data of the system modules

Housing encoder

Flange	synchro flange
Flange material	aluminium
Housing cap	stainless steel

Shaft(s)

Shaft material	stainless steel
Starting torque	approx. 0.2 Ncm at ambient temperature

Shaft	Ø 6 mm shaft with flat
Shaft length	L: 11.5 mm
Max. permissible shaft loading radial	80 N
Max. permissible shaft loading axial	50 N

Bearings

Max. operating speed	12000 rpm
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Spring loaded arm

Adjustable prestressing force	0 N up to 20 N in steps of 5 N
Length of spring lever axis	74.5 mm
Material	aluminum
Contact pressure	adjustable, 3°-step equates 5 N pressure increase

Machinery Directive: basic data safety integrity level

MTTF _d	1200 a
Mission time (T _M)	20 a
Nominal service life (L _{10h})	1.7 x 10 ¹⁰ revs. at 20 % rated shaft load and 12000 rpm
Diagnostic coverage (DC)	0 %

Electrical Data

Power supply/Current consumption	4.75 VDC up to 32 VDC: typ. 80 mA
Output circuit	TTL, HTL
Pulse frequency	HTL up to 16384 ppr: max. 600 kHz TTL up to 16384 ppr: max. 1 MHz
Channels	ABN and inverted signals
Load	max. 40 mA / channel
Circuit protection	inverse-polarity and short-circuit protection

Accuracy

Phase offset	90° ± max. 8.5 % of a period duration
pulse-/pause-ratio	50 % ± max. 7 %

General Data

Weight	approx. 270 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
LMSxxxGR:	-40 °C up to +85 °C

Range of application measuring wheel U = 200 mm



LMSxxxKH: (even) Plastic, painted surfaces, paper, paste-board, wood, metal, textiles.



LMSxxxKG: (fluted) Plastic, painted surfaces, paper, paste-board, wood, metal, textiles.



LMSxxxNG: (pimpled) Textiles.

Range of application measuring wheel U = 150 mm



LMSxxxGR: (even) Wood, metal, conveyor belts, paper, textiles.

More information

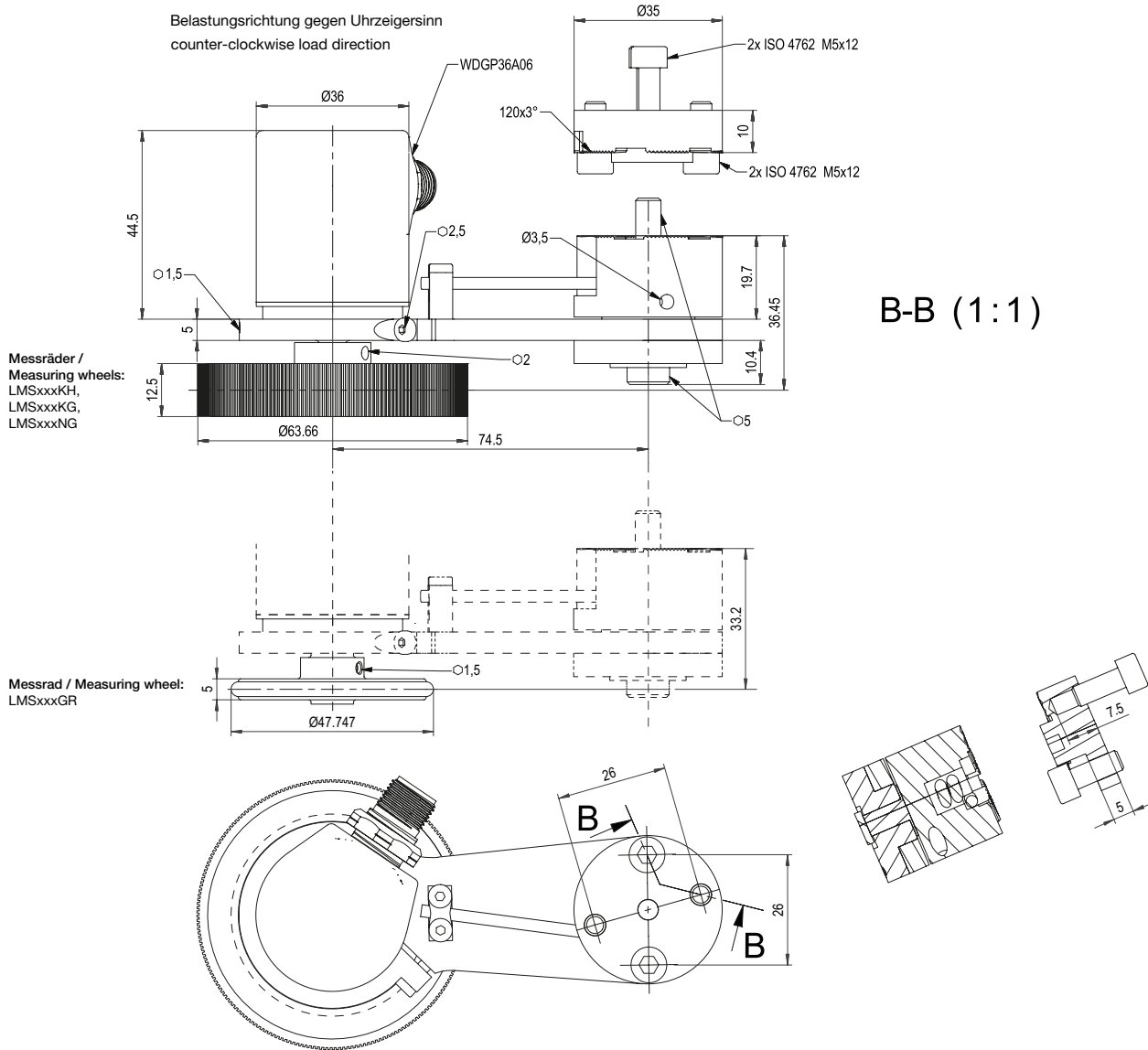
General technical data and safety incremental encoders

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
GND	1
+UB	2
A	3
B	4
N	5
SET	-
A inv.	6
B inv.	7
N inv.	8
n. c.	-
Shield	-

Order No.:

[illegible]

* Range of application measuring wheel U = 200 mm

1 LMSxxxKH Plastic, painted surfaces, paper, pasteboard, wood, metal, textiles.

2 LMSxxxKG Plastic, painted surfaces, paper, pasteboard, wood, metal, textiles.

3 LMSxxxNG Textiles.





		LM5972P-1000-24GR		LM5972P-1000-05GR		LM5972P-1000-24GR		LM5972P-1000-05GR		LM5972P-2004-024GR		LM5972P-2004-05GR		LM5972P-100-24GR		LM5972P-100-05GR	
mm/pulses	Pulses																
1.0	150	•	•														
0.1	1500			•	•												
0.04	3750						•	•									
0.01	15000									•	•						
VDC																	
4.75 up to 32 HTL		•		•			•			•							
4.75 up to 32 TTL			•		•			•			•						

Range of LMSxxxGR application measuring wheel U = 150 mm

Wood, metal, conveyor belts, paper, 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.
http://www.wachendorff-automation.com/distributors_worldwide.html

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