

Draw-wire system SZG122



Typical areas of application include:

lifts/elevators, lifting platforms, theatre stages, fork lifts and cranes.

Measurement ranges:

0 - 1.000 cm, 0 - 1.500 cm, 0 -2.000 cm, 0 - 2.500 cm, 0 - 3.000 cm, 0 - 3.800 cm and 0 - 4.300 cm

Resolution Measurement ranges:

WDG 58A with 1000 I/U = Resolution: 3,23 pulses/mm 2000 I/U = Resolution: 6,46 pulses/mm 5000 I/U = Resolution: 16,13 pulses/mm

Electrical Output:

2 channels (AB) are shifted by 90°. Pulses 10 - 30 Volt, push-pull, 40 mA and zero pulse per rotation = G24

2 channels (AB) are shifted by 90° . Pulses 4,75 - 5,5 Volt, push-pull, 40 mA and zero pulse per rotation + inverted signals = 105

Deviation: Less than 0.02% of the final value.

Measuring wire:

0.86 mm of thick nylon coated high-grade steel wire.

Wire connection: eye max. Wire speed: 1,5 m/sec.

System-unit housing: anodised aluminium

Weight: SZG incl. Encoder max. 6,5 kg.

Life expectancy: At least 10 million cycles.

Operating temperature: $-20... +70 \, ^{\circ}\text{C}$. Storage temperature: $-30... +80 \, ^{\circ}\text{C}$.

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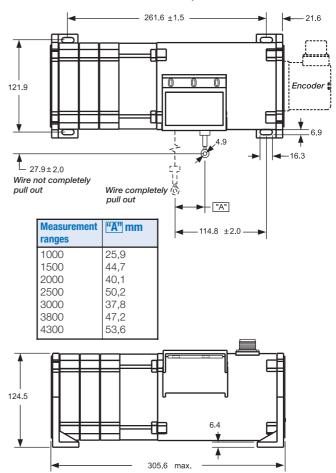
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- 0 1000 cm to 0 4300 cm
- · Exceptionally rugged length sensor
- Measuring range
- Output: incremental signals
- IP65 encoder ready-mounted www.wachendorff.de/szg122-engl

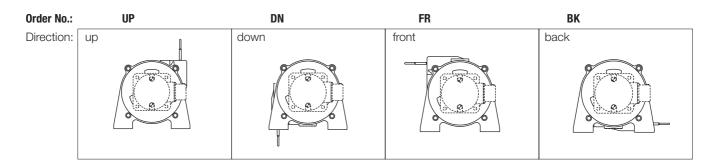
The draw-wire encoder SZG 122 was developed for use in harsh environments. With its 4 different lengths, it can be put into service very economically. The various methods of installation mean high flexibility. It can be used even where space is tight, thanks to its compact dimensions.

The SZG 122 can be mounted quickly and with its highly precise mechanics provides reliable accurate length measurement. The intelligent spring-suspension and the nylon-coated stainless-steel wire cable guarantee long-service life, even in difficult operating conditions.

The mechanics have been perfectly matched to the encoder model WDG58A. The encoder is already installed.



All details in mm and dependent on the encoder configuration.





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Example of the order of a Draw-wire system:

SZG122 - 2500 - N - UP - G24 - 3

2.500: Draw wire system with 2.500 cm Measurement range;

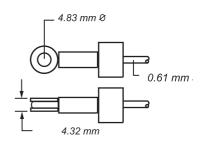
N: nylon coated high-grade steel wire

UP: Wire exit up

G24: Incl. incremental encoder 58A with channels

ABN, signal output G24
Connections: Connector 7-pin, radial
Resolution 3,23 pulses/mm.

Order number: SZG122 - 2500 - N - UP - G24 - 3
Position: 1 2 3 xx yyy zz



Short description	Position	Part of order number	Notice/Description
Туре	1	SZG122	Draw wire system, housing 122 mm.
Measurement range (MB)	2	1.000 1.500 2.000 2.500 3.000 3.800 4.300	Measurement range 1.000 cm Measurement range 1.500 cm Measurement range 2.000 cm Measurement range 2.500 cm Measurement range 3.000 cm Measurement range 3.800 cm Measurement range 4.300 cm
Measurement wire	3	N	0.86 mm of thick nylon coated high-grade steel wire
Mounting direction	xx	UP DN FR BK	Wire exit up Wire exit down Wire exit front Wire exit back
Output	ууу	G24 = 10-30 VDC, HTL I05 = 5 VDC, RS422 TTL comp.	Channels ABN, signal output Channels: ABN, ABN, signal output
Resolution *1	ZZ	3 6 16 zz*	3,23 pulses/mm 6,46 pulses/mm 16,13 pulses/mm You specify another encoder, please, use the order number of the WDG 58 A type. This encoder is assembled by us.

zz* mounted Encoder WDG 58A - zzzz - ABN - yyy - S3/5 (ppr):

For resolution 3,23 Imp./mm, of with the following qualities:

Channels: ABN: 2 channels shifted by 90° plus inverted signals

Output: G24: 10-30 Volt, 40 mA push-pull. I05: 5 VDC, 40 mA push-pull.

Connections: Connector 7-pin, radial = S3 (PIN-arrangement: A=3, B=4, N=5, 0V=1, 10-30VDC=2)

Connector 12-pin, radial = S5 (PIN-arrangement: A=5, B=8, N=3, A inv.=6, B inv.=1, N inv.=4, 0V=10, 5 VDC=12)

If you like to specify your individual encoder, please enter at the order number zz and define from the data sheet WDG 58A your special encoder.

Ordering information:

