

Draw-wire system SZG65



- Exceptionally rugged length sensor
- Measuring range: 0 - 1.250 mm
- Output: incremental signals
- IP65 encoder ready-mounted
www.wachendorff.de/szg65-engl

The draw-wire encoder SZG 65 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 65 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 encoder is already installed.

Typical areas of application include:

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

Measurement ranges:

0 - 1.250 mm,

Resolution Measurement ranges:

Various, depending on encoder up to 12,5 pulses/mm or 1250 pulses/inch at 4 x edge evaluation
 WDG 40Z with 500 I/U = Resolution: 5 pulses/mm
 WDG 40Z with 1000 I/U = Resolution: 10 pulses/mm
 WDG 40Z with 1250 I/U = Resolution: 12,5 pulses/mm
 WDG 40Z with 2500 I/U = Resolution: 25 pulses/mm

Electrical Output:

2 channels (AB) are shifted by 90°. 10 - 30 Volt, pushpull, 40 mA and zero pulse per rotation.

Deviation: Less than 0.02 % of the final value.

Measuring wire:

0,48 mm of thick nylon coated high-grade steel wire. (incl. coating)

Wire connection: eye, see drawing
 max. wire speed: 7,5 m/sec.
 Pull out strength: approx. 0,14 kg

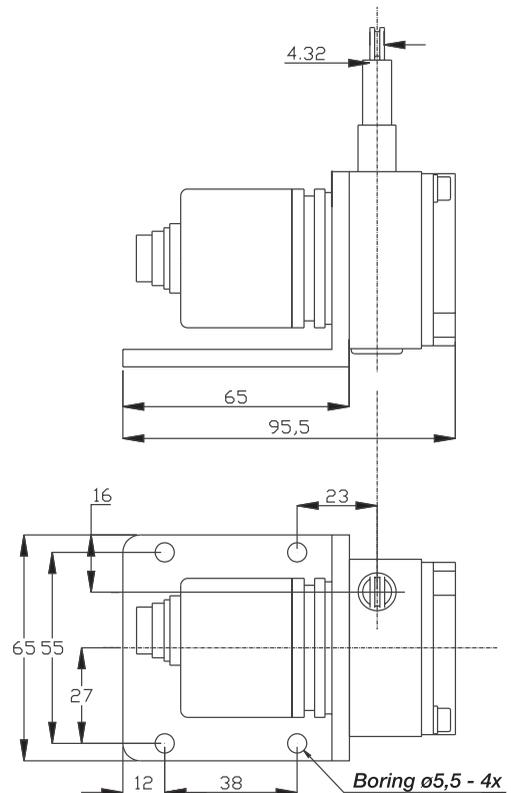
System-unit housing: anodised aluminium

Weight: SZG incl. encoder max. 1 kg

Life expectancy: at least 10 million cycles

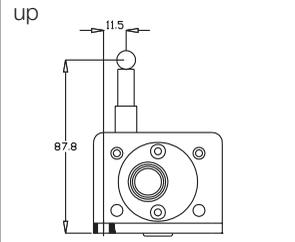
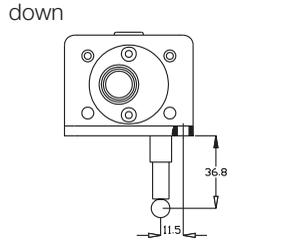
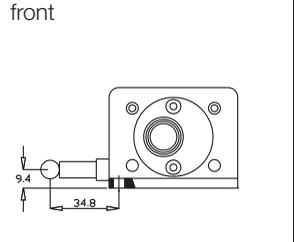
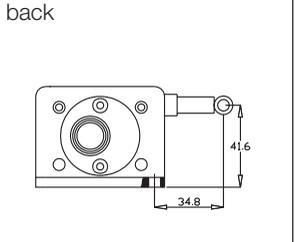
Operating temperature: -20... +70 °C
 Storage temperature: -30... +80 °C

Cable connection



All details in mm and dependent on the encoder configuration

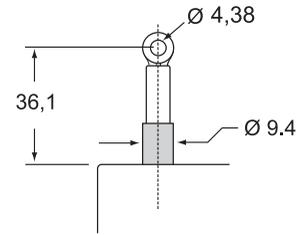
Order No.:

	UP	DN	FR	BK
Direction:	up	down	front	back
				

Example of the order of a Draw-wire system:

SZG65 - 1.250 - N - UP - G24 - 05

- 1.250: Draw wire system 1.250 mm measurement range;
- N: nylon coated high-grade steel wire
- UP: wire exit up
- G24: incl. incremental encoder 40Z with channels:
ABN, signal output: G24 = 10-30 VDC, HTL
- Connections: connector 7-pin, axial
- 05: Resolution 5 pulses/mm.


Order number: SZG65 - 1.250 - N - UP - G24 - 05
Position: 1 2 3 xx yyy zz

Short description	Position	Part of order number	Notice/Description
Type	1	SZG65	Draw wire system, housing 65 mm
Measurement range (MB)	2	1.250	measurement range 1.250 mm
measurement wire	3	N	0,48 mm of thick nylon coated high-grade steel wire
mounting direction	xx	UP DN FR BK	Wire exit up Wire exit down Wire exit back Wire exit back
Output	yyy	G24 = 10-30 VDC, HTL G05 = 5 VDC, TTL	Channels: ABN, signal output
Solution *1	zz	05 10 12 25 zz*	5 pulses per mm 10 pulses per mm 12,5 pulses per mm 25 pulses per mm You specify another encoder, please, use the order number of the WDG 40Z type. This encoder is assembled by us.

*1 if you enter here 5, 10 or 25 you will get a ready-mounted encoder;

Order number: WDG 40Z-YYYY-ABN-G24-S2 (pulses/mm):

For resolution 5 pulses/mm = 500, 10 pulses/mm = 1000, 12,5 pulses/mm = 1250 and 25 pulses/mm = 2500, with the following qualities:

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

Output: G24: 10-30 Volt, 40 mA push-pull G05 = 4,75 - 5,5 Volt, 40 mA push-pull

Connection: connector 7-pin, axial (PIN-arrangement: A=3, B=4, N=5, GND=1, +UB=2, Error=6)

If you like to specify your individual encoder, please enter at the order number xx

and define from the data sheet WDG 40Z your special encoder.

Ordering information:

<p>Mounting direction:</p> <p>Wire exit up = UP Wire exit down = DN Wire exit front = FR Wire exit back = BK</p>	<p>Output circuit:</p> <p>G24 = 10-30 VDC, HTL G05 = 5 VDC, TTL</p>
<p>Measurement wire:</p> <p>0.48 mm of thick nylon coated high-grade steel wire = N</p>	<p>Resolution:</p> <p>05 = 5 pulses per mm 10 = 10 pulses per mm 12 = 12,5 pulses per mm 25 = 25 pulses per mm You specify another encoder, please use the order number of the WDG 40Z type. = zz</p>
<p>Measurement range:</p> <p>1.250 mm = 1250</p>	

Example	SZG65	1250	N	UP	G24	05
Your system	SZG65					