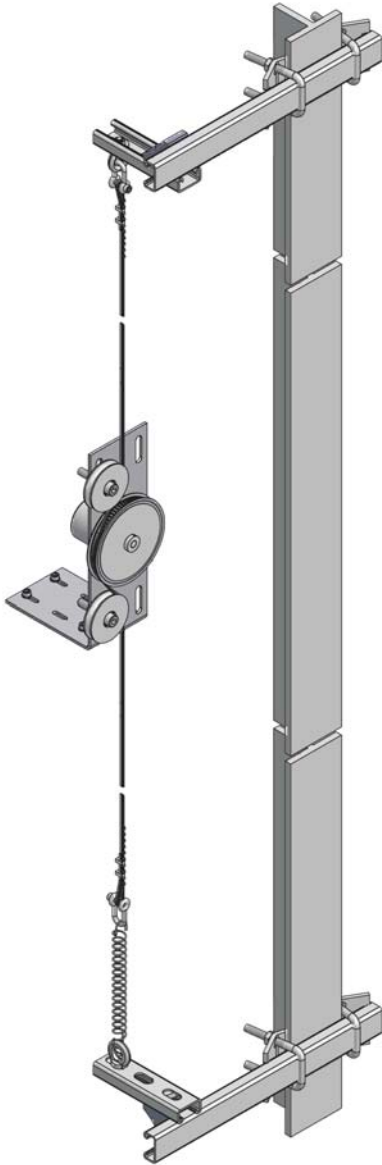


Guided belt measuring system Silent Move light WDGMSMZ

For heights up to 54 metres



- Quiet and non-slip digital shaft copying for universal mounting on a lift cabin
- Use up to speeds of 4 m/sec.
- Particularly quiet and smooth-running, thanks to special belts and low-noise suspension.
- User-friendly, reliable alternative to switches and sensors.
- Accuracy in the shaft::
 - Incremental encoder WDG up to 0.08 mm/pulse at 5000 pulses
 - Absolute, magnetic encoder WDG multiturn, with 4096 steps/turn 12 Bit and 4096 turns 12 Bit (24 Bit Multiturn), with SSI interface or 4096 steps/turns 12 Bit and 262144 turns 18 Bit (30 Bit Multiturn) with CANopen interface.
- Fast and flexible installation with complete set of mechanical parts.

www.wachendorff-automation.com/silent-move

The quiet **Silent Move** belt shaft copying devices are systems which are installed quickly and easily in the shaft.
All installation components required for standard installation to the lift cab rail or on the wall are supplied.



Put together your own system for shaft copying, by selecting an encoder and specifying the length of the special belt.



Incremental encoder WDG58B



Absolute encoder WDG



Self-guiding special belt for exceptionally quiet, non-slip measuring with noise-reducing wheel.

Calculation of the limit frequency:

$$f_g \text{ (Hz)} = \frac{\text{Pulse number of encoder (PPR)} \times \text{max. speed (m/sec)}}{\text{Circumference of pulley (m)}}$$

Example:
 $f_g \text{ (Hz)} = \frac{2500 \text{ PPR} \times 4 \text{ m/sec.}}{0.4 \text{ m}} = 25000 \text{ Hz}$

Calculation of resolution in the lifting hole:

$$\text{Res. in pulses/mm} = \frac{\text{Pulse number of encoder (PPR)}}{\text{Circumference of pulley (mm)}}$$

Example:
 $\text{Res. in pulses/mm} = \frac{2500 \text{ PPR}}{400 \text{ mm}} = 6.25 \text{ p/mm} \hat{=} 0.16 \text{ mm}$

Ordering information - Guided belt measuring system WDGMSMZ:

Description:	Order No.:
<p>System (without encoder): Belt pulley, 2 tensioning rollers, encoder attachment, attachment of the belt in the shaft, tensioning device for the belt and corresponding assembly components. Please order the special belt separately. (see below: Silent Move special belt, calculation of length)</p>	WDGMSMZ
<p>Incremental variants System with incremental encoder 58B600ABNG24K3: For a accuracy of measurement of 0.6 mm or 1.5 pulses per mm with a limit frequency of 6000 Hz and a cab speed of 4 m/s. Encoder type 58B58B600ABNG24K3: pulse number: 600 PPR, channels: AB and zero pulse, G24: 10 up to 30 VDC, channels push-pull, K3: lead outlet 2 m cable, radial</p>	WDGMSMZ58B600ABNG24K3
<p>System with incremental encoder 58B1000ABNG24K3: For a accuracy of measurement of 0.4 mm or 2.5 pulses per mm with a limit frequency of 10.000 Hz and a cab speed of 4 m/s. Encoder type 58B1000ABNG24K3: pulse number: 1000 PPR, channels: AB and zero pulse, G24: 10 VDC up to 30 VDC, channels push-pull, K3: lead outlet 2 m cable, radial</p>	WDGMSMZ58B1000ABNG24K3
<p>System mit inkrementalem Drehgeber 58B2500ABNG24K3: For a accuracy of measurement of 0.16 mm or 6.25 pulses per mm with a limit frequency of 25.000 Hz and a cab speed of 4 m/s. Encoder type 58B2500ABNG24K3: pulse number: 2500 PPR, channels: AB and zero pulse, G24: 10 VDC up to 30 VDC, channels push-pull, K3: lead outlet 2 m cable, radial</p>	WDGMSMN58B2500ABNG24K3
<p>Define your incremental encoder: With the aid of the calculation forms for limit frequency and resolution in the shaft and the data sheet WDG58B. All variants defined except optional shaft sealed to IP67.</p>	WDGMSMZ58BXXXXYYZZSC8
<p>Absolute variants System with absolute multiturn encoder with SSI interface*: For a accuracy of measurement of 0.09765625 mm or 10.24 Steps/mm. * Gray Code, alternatively Binary code: 4096 (12 Bit) Steps/revolution and 4096 (12 Bit) revolutions. 10 VDC up to 30 VDC, clamping flange, lead outlet 2 m cable, radial</p>	WDGMSMZS100G1212C100CAW
<p>System mit absoluten Drehgeber Multiturn mit CANOpen DS 406 Schnittstelle: For a accuracy of measurement of 0.09765625 mm or 10.24 Steps/mm. 4096 (12 Bit) Steps/revolution and max. 262144 (18 Bit) revolutions. 10 VDC up to 30 VDC, clamping flange, 5 pin. connector, 10 m bus line with connector and female connector.</p> <p>Comprehensive technical information on absolute encoder types is given in the data sheets on the encoder WDG absolut SSI and CanOpen magnetic www.wachendorff-automation.com/magnetic</p>	WDGMSMZ58B101218COAB00CB5
<p>Silent Movelight special belt: Calculation of the length: Transport height + 5 m (extend accordingly for transition points)</p> <p>20 m 35 m 50 m 60 m 80 m 360 m-drum Special belt (XXX = figures in metres)</p>	WDGZR020 WDGZR035 WDGZR050 WDGZR060 WDGZR080 WDGZR360 WDGZRXXX