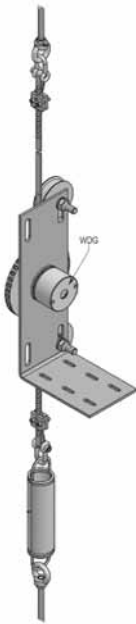


Set - Guided belt measuring unit Silent Move WDGMEMN

For heights up to 120 metres (393.70 ft)



- Measuring set for easy installing the belt on existing brackets in the elevator shaft.
- Quiet and non-slip digital shaft copying for universal mounting on a lift cabin
- Use up to speeds of 4 m/s (800 ft/min).
- 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 WDG58B up to 0.08 mm/pulse (0.0031496 inch/pulse) at 5000 pulses
 - Absolute encoder WDGA58B multiturm, with CANopen interface: 4,096 steps/turn and 262,144 (18 bit multiturm) turns, CANopen LIFT interface: 4,096 steps/turn and 262,144 (18 bit multiturm) turns or SSI interface: 4,096 (12 bit) steps/turn and 8,192 (13 bit multiturm) turns
- Quick and easy mounting with our complete belt fixing and tensioning set.

www.wachendorff-automation.com/silent-move

The quiet **Silent Move** belt shaft copying devices are measuring units 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.

Noticeably quieter in a noise comparison*:
Conventional System: 92 db
Silent Move: 68 db

*measured directly at the idler pulley at 4 m/sec (800 ft/min).

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



Incremental encoder
WDG58B



Absolute encoder
WDGA58B

Incremental encoders WDG:

Calculation of resolution in the shaft:

Effective circumference of pulley: 401.11 mm (15.7917322835 inch)

$$\text{Res. in mm (inch)} = \frac{401.11 \text{ mm (15.7917322835 inch)}}{\text{Pulse number of encoder (PPR)}}$$

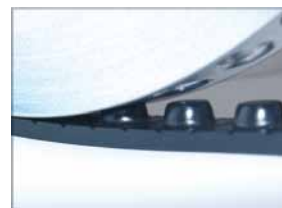
$$\text{Res. in pulses/mm (inch)} = \frac{\text{Pulse number of encoder (PPR)}}{401.11 \text{ mm (15.7917322835 inch)}}$$

Calculation of the limit frequency:

$$f_g \text{ (Hz)} = \frac{\text{Pulse number of encoder (PPR)} \times \text{max. speed (m/sec) (ft/sec)}}{0.40111 \text{ m (1.3153999 ft)}}$$

Calculation of the traverse path:

$$s \text{ (m) (ft)} = \frac{\text{Pulses (l)}}{\text{Pulse number of encoder (PPR)}} \times 0.40111 \text{ m (1.3153999 ft)}$$



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

Ordering information - Guided belt landing system WDGMEMN:

Discription:	Order No.:
<p>Incremental variants</p>	
<p>Unit (without encoder): Belt pulley, 2 tensioning rollers, encoder attachment, attachment of the belt in the shaft, tensioning device and fixing for the belt Please order the special belt separately. (see below: Silent Move special belt, calculation of length)</p>	WDGMEMN
<p>Unit with incremental encoder 58B600ABNH24K3: For a accuracy of measurement of 0.669 mm (0.03 inch) or 1.5 pulses/mm (37.99 pulses/inch) with a limit frequency of 5.98 kHz and a cab speed of 4 m/s (787.4 ft/min). Encoder type 58B58B600ABNH24K3: 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>	WDGMEMN58B600ABNH24K3
<p>Unit with incremental encoder 58B1000ABNH24K3: For a accuracy of measurement of 0.4 mm (0.02 inch) or 2.5 pulses/mm (63.324 pulses/inch) with a limit frequency of 9.972 kHz and a cab speed of 4 m/s (787.4 ft/min). Encoder type 58B1000ABNH24K3: Pulse number: 1,000 PPR, channels AB and zero pulse, G24: 10 VDC up to 30 VDC, channels push-pull, K3: lead outlet 2 m cable, radial</p>	WDGMEMN58B1000ABNH24K3
<p>Unit with incremental encoder 58B2500ABNH24K3: For a accuracy of measurement of 0.16 mm (0.01 inch) or 6.23 pulses/mm (158.31 pulses/inch) with a limit frequency of 24.93 kHz and a cab speed of 4 m/s (787.4 ft/min). Encoder type 58B2500ABNH24K3: Pulse number: 2,500 PPR, channels AB and zero pulse, G24: 10 VDC up to 30 VDC, channels push-pull, K3: lead outlet 2 m cable, radial</p>	WDGMEMN58B2500ABNH24K3
<p>Define your incrementalen 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>	WDGMEMN58BXXXXYYZZK3
<p>Absolute variants WDGA58B CANopen, CANopen LIFT or SSI</p>	
<p>Unit with absolute multiturn encoder with CANopen CiA 406 interface: For a accuracy of measurement of 0.0979 mm (0.0038 inch) or 10.37 steps/mm (259.38 steps/inch). Binary Code: 4,096 (12 bit) steps/revolution and max. 262,144 (18 bit) revolutions. Power supply 10 VDC up to 30 VDC, 5 pin. connector, radial 10 m bus line connector and female connector, T-junction, termination resistor.</p>	WDGMEMN58B101218COAB00CC5
<p>Unit with absolute multiturn encoder with CANopen LIFT CiA 417 interface: For a accuracy of measurement of 0.0979 mm (0.0038 inch) or 10.37 steps/mm (259.38 steps/inch), configurable. Binary Code: 4,096 (12 bit) steps/revolution and max. 262,144 (18 bit) revolutions, configurable. Power supply 10 VDC up to 30 VDC, 5 pin. connector, radial 10 m bus line connector and female connector, T-junction, termination resistor.</p>	WDGMEMN58B101218CLAB00CC5
<p>Unit with absolute multiturn encoder with synchronous serial interface SSI*: For a accuracy of measurement of 0.0979 mm (0.0038 inch) or 10.37 steps/mm (259.38 steps/inch). * Gray Code (G)/Binary Code (B): 4,096 (12 bit) steps/revolution and 8,192 (13 bit) revolutions. Power supply 10 VDC up to 30 VDC, cable 2 m, radial</p>	WDGMEMN58B101218SIAX01L3 X = G or B
<p>Comprehensive technical information on WDGA 58B CANopen / WDGA 58B CANopen LIFT / WDGA 58B SSI - www.wachendorff-automation.com/wdga58bcan /wdga58bcanlift /wdga58bssi</p>	
<p>Silent Move special nubbed belt:</p>	
<p>Calculation of the length: Transport height + 5 m (extend accordingly for transition points) 20 m 35 m 50 m 60 m 80 m 200 m-drum 500 m-drum Special nubbed belt (XXX = figures in metres)</p>	WDG NR020 WDG NR035 WDG NR050 WDG NR060 WDG NR080 WDG NR200 WDG NR500 WDG NRXXX