WACHENDORFF

System - Guided belt measuring system Silent Move WDGMSMN 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 WDGI58B up to 0.08 mm/pulse (0.0031496 inch/pulse) at 5000 pulses
 Abael to anorder WDC ASER multitum with
 - Absolute encoder WDGA58B multiturn, with CANopen interface: 4,096 steps/turn and 262,144 (18 bit multiturn) turns, CANopen LIFT interface: 4,096 steps/turn and 262,144 (18 bit multiturn) turns or SSI interface: 4,096 (12 bit) steps/turn and 8,192 (13 bit multiturn) turns
- Quick and easy mounting with our complete belt fixing and tensioning set.

www.wachendorff-automation.com/silent-move

The quiet *Silent Move* belt landing system 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.

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



Incremental encoder WDGI58B

Incremental encoders WDGI:

Calculation of resolution in the shaft: Effective circumfrerence of pulley: 401.11 mm (15.7917322835 inch)

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

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

Calculation of the limit frequency:

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

Calculation of the traverse path:

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



Absolute encoder WDGA58B

Absolute encoders WDGA:

Repeat precision with WDGA: +/- 0.223 mm (0.00877951 inch)



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

Ordering information - Guided belt landing system WDGMSMN:

Order No.:
WDGMSMN
WDGMSMN58B10600ABNH24K3
WDGMSMN58B101000ABNH24K3
WDGMSMN58B102500ABNH24K3
WDGMSMN58B10XXXXYYYZZZK3
WDGMSMN58B101218COAB00CC5
WDGMSMN58B101218CLAB00CC5
WDGMSMN58B101218SIAX01L3 $X = G \text{ or } B$
WDGNR020 WDGNR035 WDGNR050 WDGNR060 WDGNR080 WDGNR200 WDGNR500 WDGNRXXX

Customs tariff number: 90318020 Country of origin: 90318020 Germany