

Linear Measuring Technology

Elevator measuring system for shaft-copying

Encoder mounting fixture, guided-belt, LM3

max. height 53 m



System for shaft-copying, with complete mechanical kit in proven toothed belt technology.

A smooth-running toothed belt and a vibration-resistant encoder mounting fixture ensure quiet operation. The belt pulley benefits from separate bearing supports in the mounting fixture, so protecting the installed encoder from mechanical overloading. With the guided-belt system, the encoder mounting fixture and the measuring wheels are located on the elevator car.



Ideal for use in passenger elevators, freight elevators, automatic storage systems.

Complete system

- Rugged construction
- Reduced load on encoder bearings due to separate belt pulley-bearings
- Non-slip
- Tensioning rollers with belt guide

Minimal noise generation

- Smooth-running toothed-belt ensures extremely quiet operation
- Vibration-free operation

Order code

8.LM3.01

Encoder mounting fixture with measuring wheels for fixing on the elevator car

consists of:

- Encoder mounting fixture
- Mounted measuring wheel
- Belt guide
- Belt fixing and tensioning set
- Screws and other small components

suitable encoders:

- Incremental encoder: 8.5000.83XX.XXXX

Calculation of pulse rate PPR =

$$\frac{300 \text{ mm}}{\text{Resolution, e.g. } 0.5 \text{ mm}} = 600$$

- Absolute encoders:

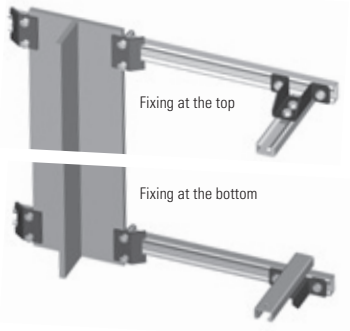
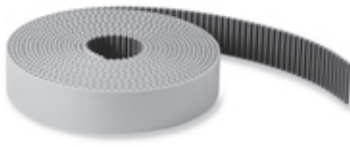
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CANopen / CANopenLift: 8.5868.12XX.XXXX



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Accessories for encoder mounting fixture LM3		Order No.
Fixing kit 	Complete kit consists of: - C-rails, 700 mm - Bracket - Screws - Other small components	8.BLM2.01
Toothed belt 	- Width 10 mm - Polyurethane, with single parallel steel cords. - Low belt-stretch - High resistance to abrasive wear - Resistant to the effects of UV radiation - Maintenance-free - Resistant to ageing - Temperature range -10°C...+80°C [+14°F ... +176°F] Calculation of the required length of toothed belt = Elevator height + approx. 5 m (depending on the distance between top and bottom fixing)	05.ZAR1.XXX XXX = Length in metres Standard delivery lengths: 20 m, 25 m, 30 m, 35 m, 40 m, 45 m, 50 m, 55 m, 60 m, 70 m, 80 m, 90 m, 100 m, 120 m, 250 m, 300 m Other lengths on request

Technical data	
Resolution in the shaft	depends on the resolution of the encoder (e.g. incremental encoder with 3000 PPR = 0.1 mm; absolute encoder 12 x 12 bit < 0.1 mm)
Elevator car speed	max. 1.6 m/s
Max. height of elevator	53 m
Effective circumference of belt pulley	300 mm

Dimensions

Dimensions in mm [inch]

