

Linear Measuring Technology Measuring system for Shaft-copying

Measuring system for elevators

LM3, BLM1 and ZAR

Guided-belt



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 can be mounted directly on the encoder shaft. 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:

- Quick, easy mounting
- With accessories from a single source

Smooth-running toothed-belt system:

- Minimal noise generation
- Non-slip

Encoder mounting fixture

Simple encoder mounting fixture with measuring wheel, for fixing on the elevator car:



Order code 8.LM3.01

- Tensioning rollers with belt guide
- Smooth-running toothed-belt ensures extremely quiet operation
- · Quick, easy mounting

Complete encoder mounting fixture comprising:

- Encoder mounting fixture
- Measuring wheel
- Belt guide
- · Belt fixing and tensioning set
- Screws and other small components

Suitable encoders:

• Incremental encoder: 8.5000.73XX.XXXX Calculation of pulse rate PPR =

300 mm

Resolution, e.g. 0.5 mm = 600

- · Absolute encoders:
- SSI: 8.5863.12XX.XXXX
- CANOpen: 8.5868.12XX.XXXX.



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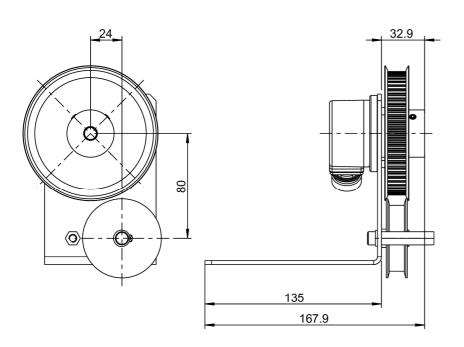
Guided-belt

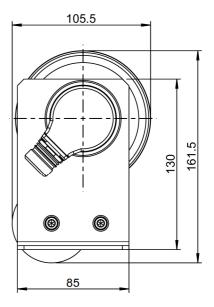
General technical data:

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. 1,2 m/sec
Max. height of elevator	28 m
Effective circumference of belt pulley	300 mm
Working temperature range:	-20°+85°C

Dimensions LM3:

2





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Fixing kit





Fixing at the top

Fixing at the bottom

Complete kit consists of: C-Rails, 700 mm, bracket, screws and other small components

Order code: 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

Calculation of the required length of toothed belt = Elevator height + approx. 5 m*

Order code:

05.ZAR1.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 und 120 m Other lengths on request

^{*}depending on the distance between top and bottom fixing