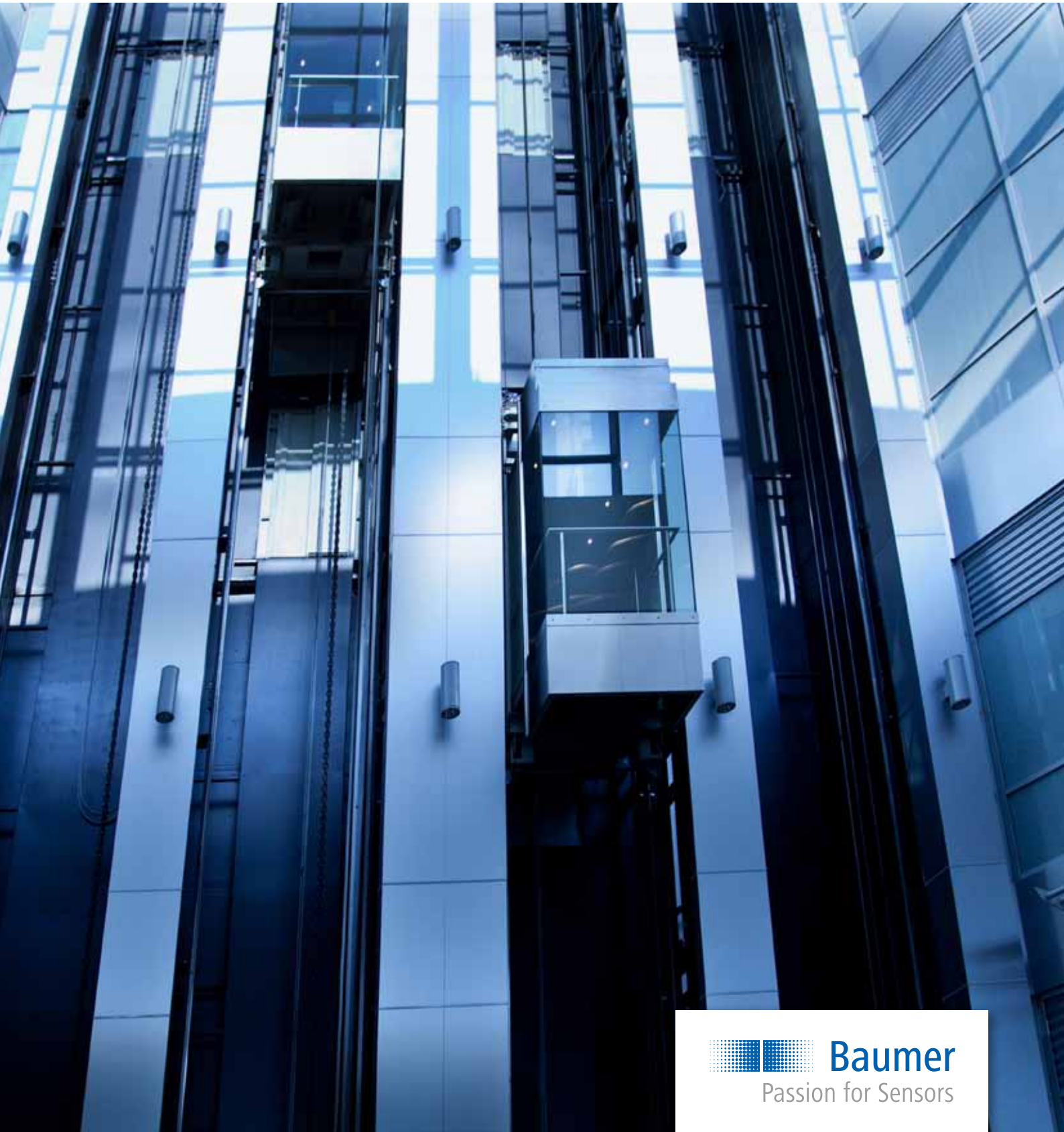
Elevators and Escalators

Encoders, inclination sensors and counters



Baumer
Passion for Sensors

Aiming high together.

In lift engineering, safety and reliability are both top priority. These requirements are in line with our standards regarding all Baumer products. That's why our encoders, sensors, and counters are preferred components in elevators and escalators from well-known manufacturers worldwide, where they maximize travel comfort, availability and efficiency.

Shaft copying

GM400 SSI (absolute, multi-turn)

- Number of steps per revolution up to 16 384/14 bits, number of revolutions up to 65 536/16 bits
- Solid shaft ø10 mm (clamping flange)
- Optionally up to 2 048 additional incremental signals

GXP5W CANopen (absolute, multi-turn)

- Number of steps per revolution up to 8 192/13 bits, number of revolutions up to 65 536/16 bits
- Solid shaft ø10 mm (clamping flange) or ø6 mm (servo flange)
- Profile conformity CANopen CiA DSP 406 V 3.0 or CANopen CiA DSP 417 Lift

***MAGRES* BMMV 58K/S (absolute, multi-turn)**

- Number of steps per revolution up to 4 096/12 bits, number of revolutions up to 262 144/18 bits
- Solid shaft ø10 mm (clamping flange) or ø6 mm (servo flange)
- Shock-proof up to 500 g

***OptoPulse* EIL580-SC (incremental)**

- 100 to 5 000 pulses per revolution
- Solid shaft ø10 mm (clamping flange)
- High shaft load: 40 N axial, 80 N radial

Your benefits:

- Up to eight elevator shafts can be operated via a CANopen network system
- Very easy integration
- Lower costs for traveling cables thanks to reduced number of cable strands
- Easy function extensions do not require subsequent insertion of cables

Maximum travel comfort.
Stops accurate to the millimeter.

Drive technology

OptoPulse EIL580-B/T (incremental)

- 100 to 5 000 pulses per revolution
- Blind or through hollow shaft ø 8 … 15 mm
- Additional commutation signals on request

ITD 41 A 4 Y100, ITD 61 A 4 Y 4 (incremental)

- 1 024 … 10 000 pulses per revolution (depending on variant)
- Through hollow shaft ø 20 … 50 mm (depending on variant)
- Housing and shaft made of stainless steel (ITD 61)

ITD22H00 SIL (incremental)

- 1 024 … 2 048 sine periods per revolution, SinCos 1 Vpp
- Through hollow shaft ø 10 … 12 mm
- SIL 2/Category 3, PLd

SIL2

GBPAS BiSS-C (absolute, multi-turn)

- Number of steps per revolution up to 262 144/18 bits, number of revolutions up to 4 096/12 bits
- Blind hollow shaft ø 12 or ø 14 mm
- Additional incremental signals up to 2 048 sine periods per revolution

BiSS INTERFACE

ITD 49, ITD 69, ITD 89 (incremental)

- 64 … 8 192 pulses per revolution (depending on variant)
- Through hollow shaft ø 9 … 140 mm (depending on variant)
- Bearingless and wear-free

GI357 (incremental)

- 5 … 5 000 pulses per revolution, TTL or HTL
- Solid shaft ø 10 mm (clamping flange) or ø 6 mm (servo flange)
- SIL 2/Category 3, PLd

SIL2

Other applications

ITD 01 A 4 Y 1, ITD 01 B14

- 30 … 1 024 pulses per revolution
- Blind hollow shaft ø 4 mm or solid shaft ø 4 mm (depending on variant)
- 24 mm design, 20 mm overall depth

MAGRES BMMH 30

- Number of steps per revolution up to 4 096/12 bits, number of revolutions up to 8 192/13 bits
- Blind hollow shaft ø 4 or ø 6 mm
- 30 mm design

Lifting platforms and hydraulic elevators

MAGRES BMMS

- Measuring range up to 7.5 m
- Absolute
- Compact design
- CANopen

Flexible cable-pull encoder combinations

- Measuring range up to 50 m
- Incremental or absolute
- Wide variety of combinations
- All common interfaces

GNAMG CANopen

- Inclination sensor to detect inclined position
- One or two-dimensional measuring range
- Resolution: 0.001° to 1°
- Accuracy: ±0.1° to ±0.2°

Trip and hour counters

ISI30

- Totalizer, adding
- 8-digit LCD display
- Reset function
- Built-in housing 48 x 24 mm

ISI34

- Time and hour counters
- 8-digit LCD display, time range 99999 h 59 min
- Reset function
- Built-in housing 48 x 24 mm

B 148

- Time and hour counters
- 7-digit number wheel, measuring range up to 99999.99 h
- Reliable detection without reset function
- Surface-mount or built-in housing 48 x 48 mm

Incremental, precise optical sensing, magnetic field immunity, high accuracy up to 0.01°

Absolute, precise optical sensing, magnetic field immunity, high accuracy up to 0.01°, fast position feedback

Incremental or absolute, robust magnetic sensing, very durable, shock-proof up to 500 g

Bearingless, magnetic sensing, wear-free, and virtually unlimited service life

Baumer
Passion for Sensors

For more information on products for elevator engineering go to www.baumer.com/lift

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