

# CLAMPING ELEMENTS | ELECTRIC

## LKE2001AS1 + PLKE20-2

### ▶ PRODUCT ADVANTAGES



- ▶ **Energy-efficient (bistable)**  
Opens and closes using 24 V DC voltage
- ▶ **Integrated electronics**  
Digital control and status signals
- ▶ **Flexible cable outlet**  
For maximum space utilization

### ▶ TECHNICAL DETAILS



- |                                                                                   |                                                                                           |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| <b>1 Profile rail guide</b><br>- Available for all common profile rail guides     | <b>6 Sliding block</b><br>- For floating bearings                                         |
| <b>2 Eccentric gear</b><br>- Power transmission between motor and clamping jaw    | <b>7 Emergency actuation</b><br>- Manual opening possible in case of power supply failure |
| <b>3 Clamping jaw</b><br>- Pressed at the free surfaces of the profile rail guide | <b>8 Electrical connecting cable</b><br>- Control and power supply                        |
| <b>4 Housing</b>                                                                  | <b>9 Adjusting screw</b><br>- Correction of the rail tolerance                            |
| <b>5 electric drive</b><br>- For generating clamping force                        |                                                                                           |

### ▶ INFORMATION ON THE PRODUCTS

#### APPLICATION SCENARIOS

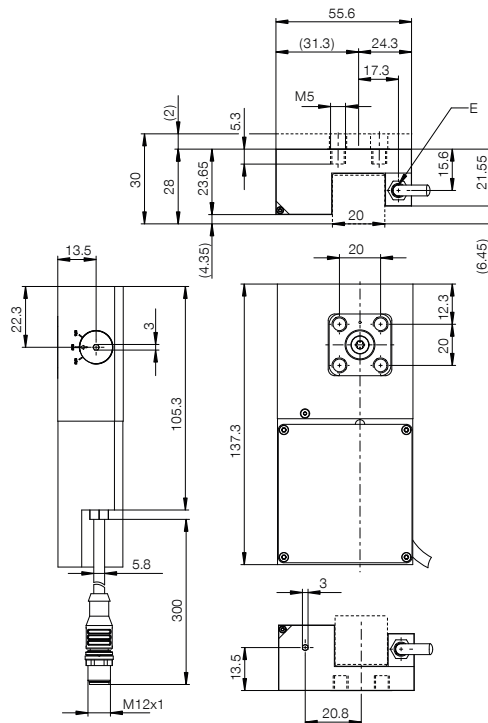
- ▶ **Axes with electric positioning**
- ▶ **Table traverses in medical applications**
- ▶ **Electric clamping of machine tables**

#### FURTHER INFORMATION

- ▶ **Spacer plate**  
In addition, a spacer plate might have to be ordered as height compensation, depending on the height of the rail carriage (dimension D).

|                    |              |             |                  |
|--------------------|--------------|-------------|------------------|
| Track manufacturer | Rail type    | Rail size   | Carriage type    |
| <b>SBC</b> ✓       | <b>SBI</b> ✓ | <b>20</b> ✓ | <b>SBI..FL</b> ✓ |

## ► TECHNICAL DRAWINGS



Ⓔ Electrical connection cable



## ► TECHNICAL DATA

| Order No.                               | LKE2001AS1 + PLKE20-2                    |
|-----------------------------------------|------------------------------------------|
| Operation                               | electric                                 |
| Holding force                           | 800 [N]                                  |
| Theoretical holding force ( $\mu=0,1$ ) | 1,000 [N]                                |
| Voltage                                 | 24 [V]                                   |
| Current consumption max.                | 1.0 [A]                                  |
| Protection to IEC 60529                 | IP64                                     |
| B10d value                              | 500,000                                  |
| Positioning accuracy +/-                | 0,05 [mm]                                |
| Opening time                            | 0.5 [s]                                  |
| Closing time                            | 0.5 [s]                                  |
| Operating temperature                   | 5 ... +50 [°C]                           |
| Weight                                  | 0.68 [kg]                                |
| Function                                | Clamping                                 |
| Condition                               | N (bistable) remains in current position |
| Installation direction                  | from above                               |
| Masking tape can be used                | with masking tape                        |
| Cable length                            | 0.3 [m]                                  |

Schematic drawing. General tolerances according to DIN ISO 2768 T1-4/T2-H. Edges according to ISO 13715. Element has no guiding properties. Guidance must be external. The holding force is the maximum force that can be applied in the axial direction. Each clamping and braking element is tested in a 100% inspection before delivery for the specified holding forces on a hardened steel rail with a lightly oiled lubricating layer (ISO-VG 68). The use of other lubricants or rail coatings can influence the coefficient of friction. The operating instructions must be observed before commissioning. We reserve the right to make technical changes in the course of further development. The latest and further data can be found online and in the operating instructions at [www.zimmer-group.com](http://www.zimmer-group.com).