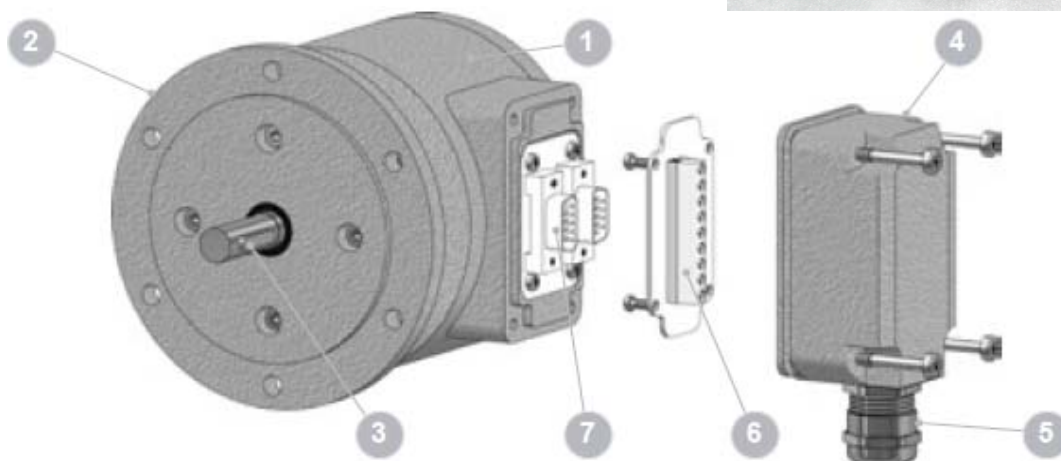


# CXB-10 重载型增量式光电编码器 安装手册

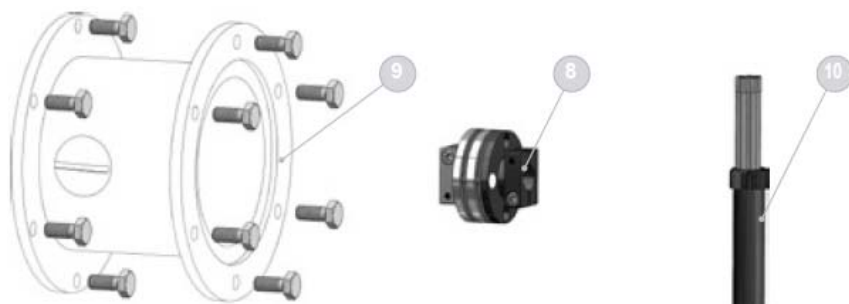
## Installation and operating instructions

### Preparation

#### 1. Scope of delivery



- 1) Housing
- 2) EURO flange B10
- 3) Solid shaft with key
- 4) Terminal box cover
- 5) Screwed gland M20x1.5 for cable | 5-13 mm
- 6) Connecting board
- 7) SUB D connectors (male) on the encoder housing



#### 2. required resp. recommended for mounting

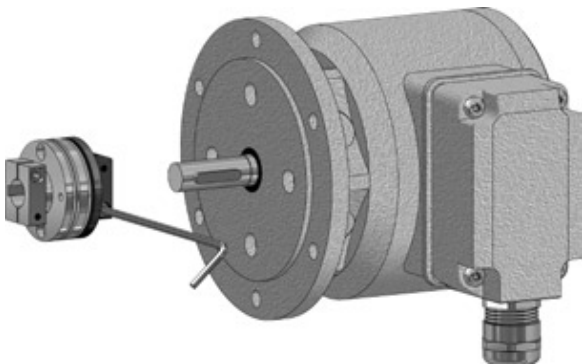
(not included in scope of delivery)

- 8) Spring disk coupling K 35 (available as accessory)
- 9) Installation fitting with fixing screws
- 10) Connecting cable HEK 8 (available as accessory)

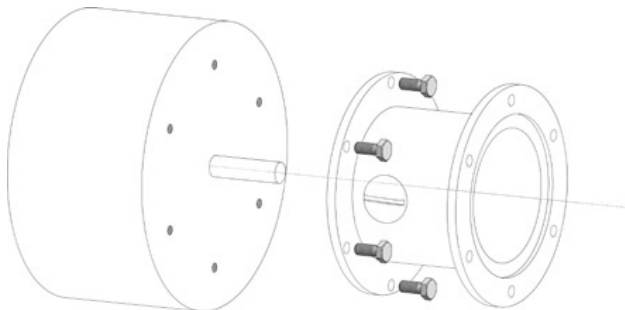
## Mounting

Pictures showing type CXB-10 as example.

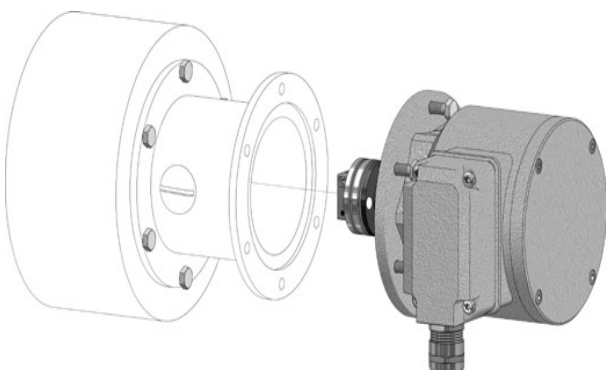
Step 1



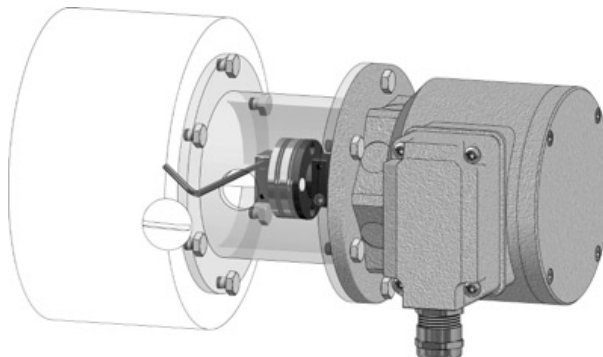
Step 2



Step 3



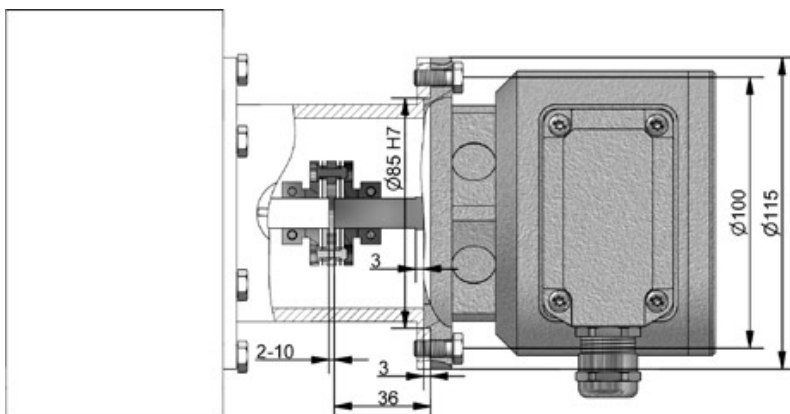
Step 4



Max tightening torque ,  $M_t = 2-3 \text{ Nm}$

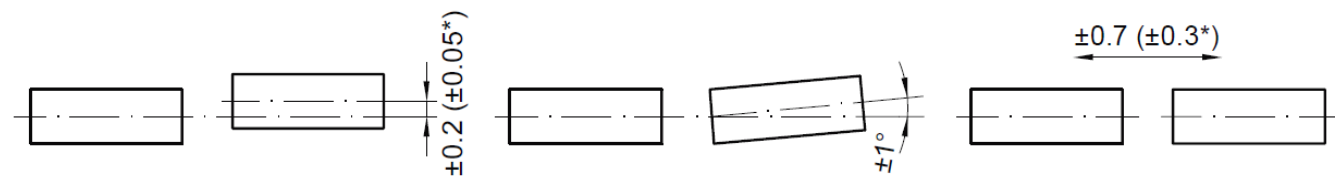
\*Max. permissible mounting tolerance when K 35 spring disk coupling is used

Incremental encoders with a solid shaft should be driven through the K 35 spring disk coupling (accessory), that can be pushed onto the shaft without axial loading.



The incremental encoder must be mounted on the drive with the least possible angular error and parallel misalignment.

Coupling components must not be driven onto the shaft with improper force (e. g. hammer impacts), because of the risk of damaging the ball bearings.

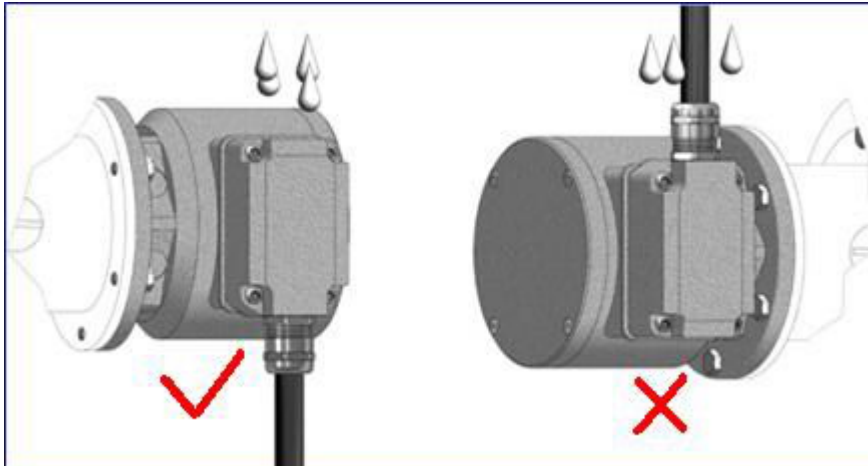


Admissible parallel misalignment

Admissible angular error

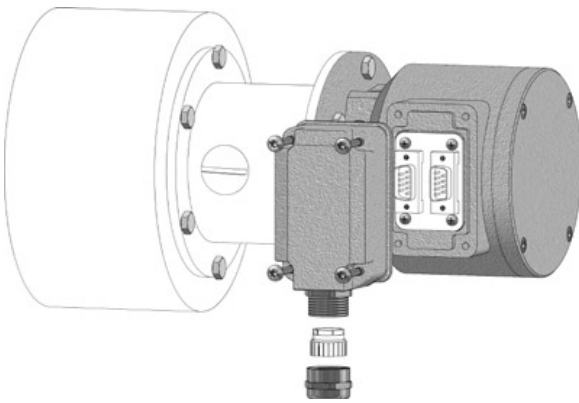
Admissible axial movement

Mounting instruction

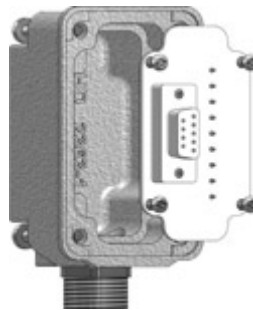


We recommend to mount the encoder in such a manner that the cable connection is not directly exposed to water.

Step 5 Terminal box



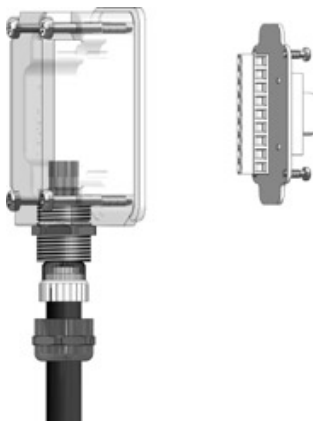
Step 6 Terminal box



Step 7 Terminal box



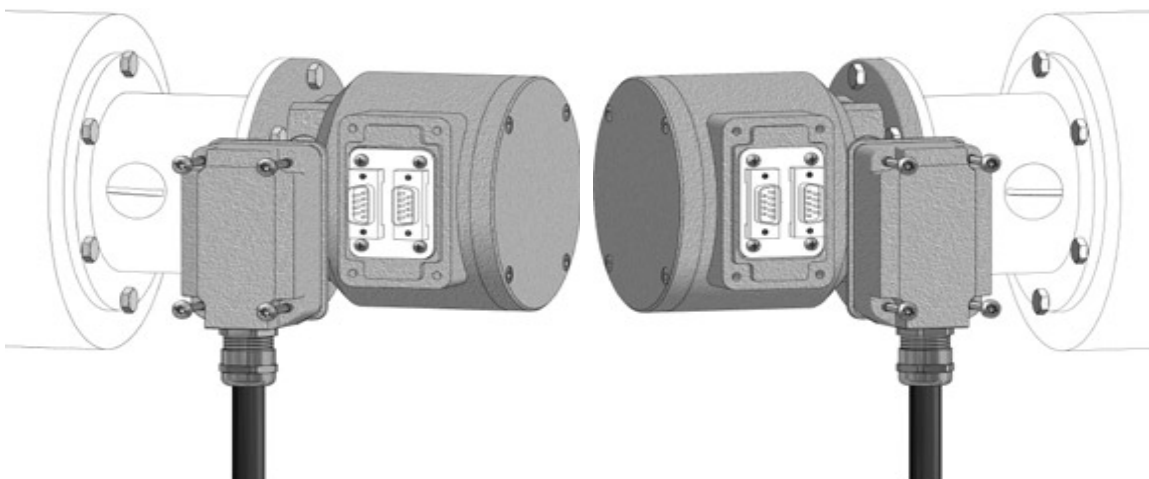
Step 8 Terminal box



Step 9 Terminal box

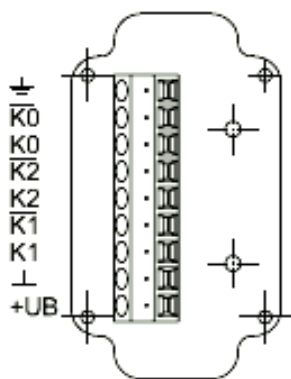


**Step 10 Terminal box 180° Spacious reversible terminal box cover**



**Electrical connection**

**Terminal assignment**



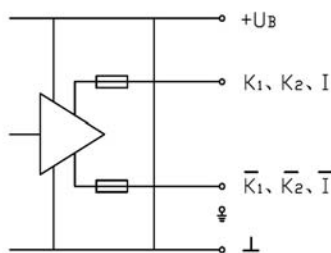
**Do not connect supply voltage to outputs!**

**Danger of damage!**

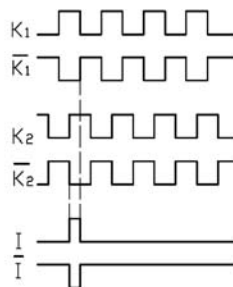
Please, beware of possible voltage drop  
in long cable leads (inputs and outputs).

电源 $U_B$	+9v ~ +30V
无载电流消耗	≈100mA
输出电压幅值 ( $U_B=24V$ )	$U_L \leq 1.5V; U_H \geq U_B - 3.5V$
每信道最大电流	60mA 平均; 250mA 峰值

**输出电路:**



**输出波形:**



**Output signals**

**Technical data**

- Maximum speed (mechanical): 6,000 rpm
- Moment of inertia: ≈ 200 gcm<sup>2</sup>
- Vibration resistance (10 Hz ... 2 kHz): ≤ 200 m/s<sup>2</sup> = 20 g (IEC 60068-2-6)
- Shock resistance (6 ms): ≤ 2,000 m/s<sup>2</sup> = 200 g (IEC 60068-2-27)
- Driving torque at operating temperature: ≈ 2 Ncm
- Load on shaft max.: axial 250 N radial 400 N
- Protection class: IP 66 (IEC 60529)
- Permissible encoder temperature: -20 °C ... +100 °C
- Weight:: ≈2.5 Kg