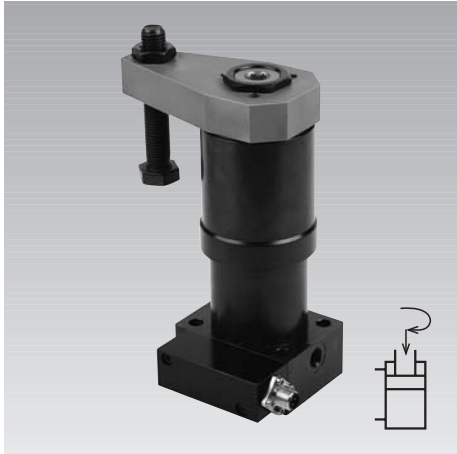


## Swing Clamps

Flange at the bottom, with position monitoring, reinforced swing mechanism, without overload protection device, double acting, max. operating pressure 500 bar



### Position monitoring

Inductive proximity switches are used for position monitoring. They are installed in the body of the swing clamp.

The control cap for activation of the proximity switches is connected to the clamping arm to enable permanent position monitoring of the clamping arm.

At the flange a sealed connecting block with a 4-pole female connector for the cable routing, adjustable within an angle of ( $\pm 90^\circ$ ), is mounted to be in the position to adapt later the direction of the right angle plug, if required.

The used right angle plug indicates by means of three LEDs the operating voltage as well as the clamped and unclamped position.

- **Electrical position monitoring combined with compact design**

- **Venting connection can be used for positive air pressure protection**

- **Easy electrical connection by right angle plug directly at the swing clamp**

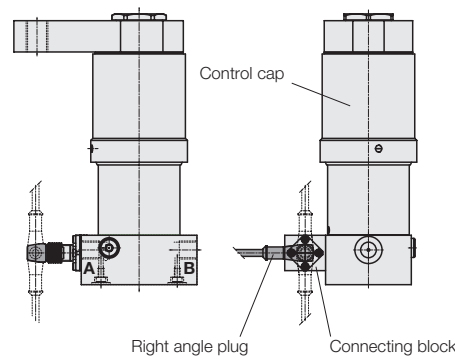
### Further advantages

- Reinforced swing mechanism
- Standard FKM wiper
- Alternatively pipe thread or drilled channels

### Application

Due to their reinforced swing mechanism and the position monitoring these swing clamps are particularly suitable for the use in automated installations as well as time or cycle-dependent clamping and unclamping processes.

- Clamping fixtures with workpiece loading via handling systems
- Transfer lines
- Test systems for motors, gears and axes
- Automatic manufacturing systems
- Assembly lines



### Functions

#### 1. Monitoring of unclamped position,

i.e. the clamping arm is in upper position for loading and unloading of the clamping fixture.

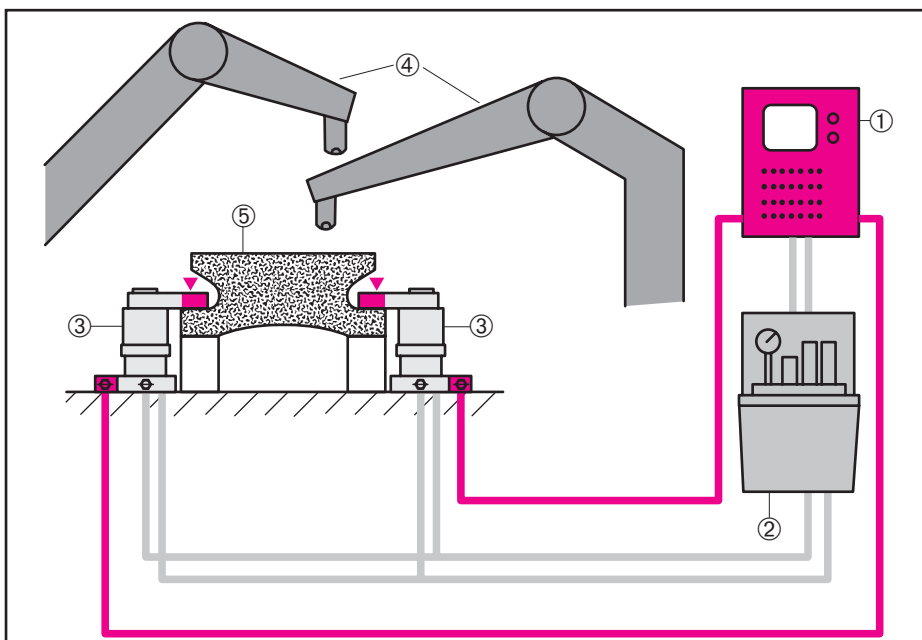
#### 2. Monitoring of clamped position,

i.e. the clamping arm has swung in and is within the clamping stroke range.

#### 3. Monitoring, if no workpiece is inserted.

If the clamping cycle is effected and no workpiece is inserted, the signal switches off 1 to 2 mm before the stroke end.

### Application example



- ① Machine control
- ② Hydraulic power unit
- ③ Swing clamp with position monitoring
- ④ Machine / workpiece handling
- ⑤ Workpiece

### Product range

Sizes: 1895-XXX and 1897-XXX

Swing angles: 0°, 45°, 60° and 90°