



Hand in hand for tomorrow



## Product data sheet

Universal gripper JGZ 100

## Loadable. Reliable. Compact.

### Universal gripper JGZ

Universal 3-finger centric gripper of the compact class with T-slot guidance and best cost-performance ratio

#### Field of application

Optimum standard solution for many fields of application. Universal application in clean and slightly dirty surroundings in machine building and plant building industry, assembly and handling as well as automotive industry.

#### Advantages – Your benefits

**A firm focus on the essentials** for maximum profitability

**Sturdy T-slot guidance** for the precise handling of different workpieces

**Compact dimensions and low weight** for minimal interfering contours in handling

**High maximum moments possible** suitable for using long gripper fingers

**Wedge-hook design** for high power transmission and synchronized gripping

**Comprehensive sensor accessories** for monitoring and control of the stroke position

**Fastening at one gripper side in two screw directions** for universal and flexible gripper assembly

**Air supply via hose-free direct connection or screw connections** for flexible pressure supply in all automated systems



Sizes  
Quantity: 7



Weight  
0.12 .. 8 kg



Gripping force  
255 .. 7990 N



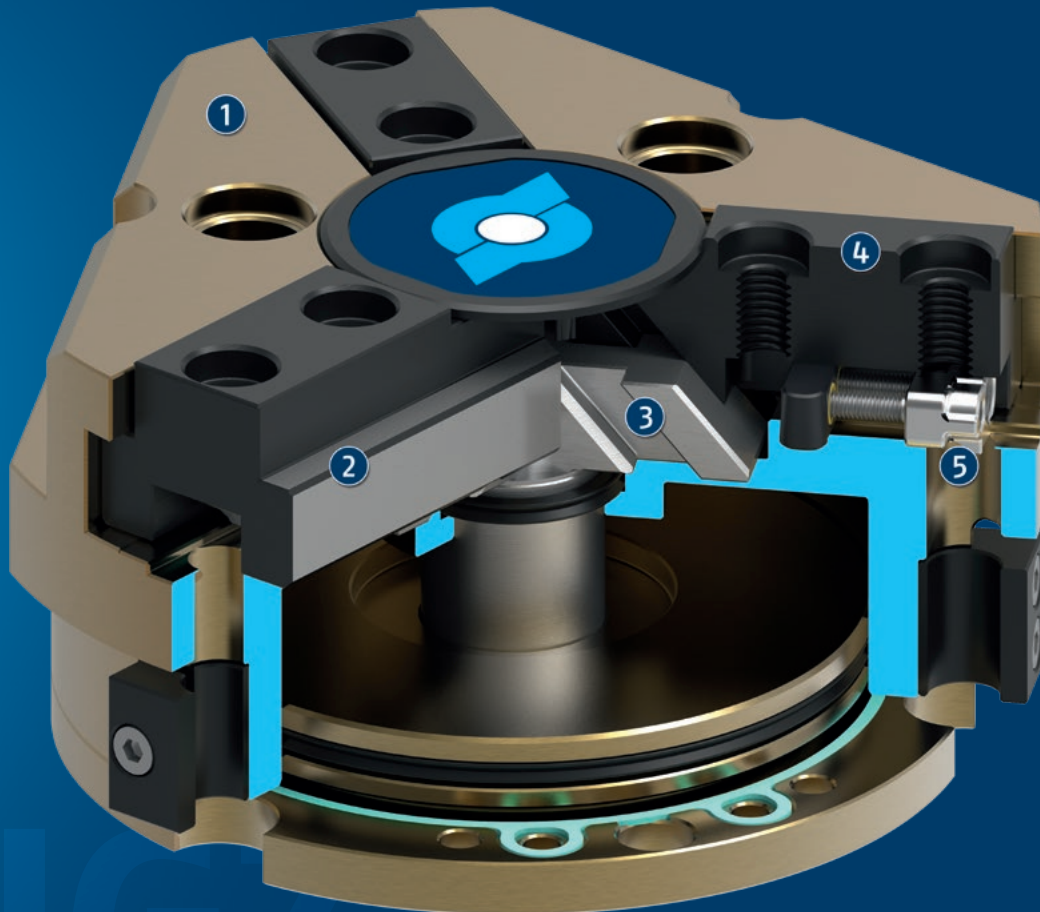
Stroke per jaw  
2.5 .. 16 mm



Workpiece weight  
1.25 .. 30 kg

## Functional description

The piston is moved up and down by compressed air.  
The angled active surfaces of the wedge-hook produce a synchronized, centric jaw movement.



- ① **Housing**  
is weight-optimized due to the use of high-strength aluminum alloy
- ② **T-slot guidance**  
loadable, robust base jaw guidance for extremely long gripper fingers
- ③ **Wedge-hook design**  
for high force transmission and centric gripping
- ④ **Base jaw**  
for the connection of workpiece-specific gripper fingers
- ⑤ **Sensor system**  
Proximity switch can be assembled without mounting kit

## General notes about the series

**Operating principle:** Wedge-hook kinematics

**Housing material:** Aluminum alloy, anodized

**Base jaw material:** Steel

**Actuation:** pneumatic, with filtered compressed air as per ISO 8573-1:2010 [7:4:4].

**Warranty:** 24 months

**Service life characteristics:** on request

**Scope of delivery:** Gripper in the ordered variant, accessory kit (centering sleeves, O-rings for direct connection/detailed contents see operating manual) and safety information. Product-specific instructions can be downloaded at [schunk.com/downloads-manuals](https://schunk.com/downloads-manuals).

**Gripping force maintenance:** possible by using the version with mechanical gripping force maintenance or pressure maintenance valve SDV-P

**Gripping force:** is the arithmetic sum of the individual force applied to each jaw at distance P (see illustration).

**Finger length:** is measured from the reference surface as the distance P in direction to the main axis.

The maximum permissible finger length applies until the nominal operating pressure is achieved. With higher pressures, the finger length must be reduced proportionally to the nominal operating pressure.

**Repeat accuracy:** is defined as a distribution of the end Position for 100 consecutive strokes.

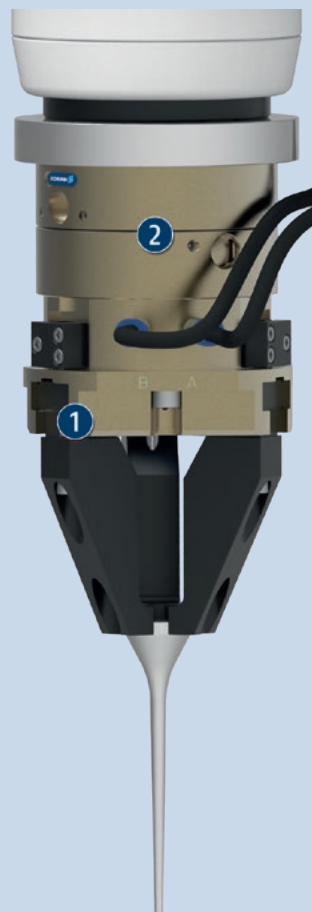
**Workpiece weight:** is calculated for force-fit gripping with a coefficient of static friction of 0.1 and a safety factor of 2 against workpiece slippage at acceleration due to gravity g. For form-fit or capture gripping, there are significantly higher permissible workpiece weights.

**Closing and opening times:** are movement times of the base jaws only, without application-specific gripper fingers. Valve switching times, hose fill times, or PLC reaction times are not included, and are to be considered when cycle times are calculated.

## Application example

Tactile assembly of insertion aids in cylinder heads

- 1 3-finger centric gripper JGZ with workpiece-specific gripper fingers
- 2 Compensation unit AGE-F

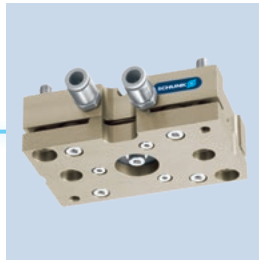


## SCHUNK offers more ...

The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



Compensation unit



Tolerance compensation unit



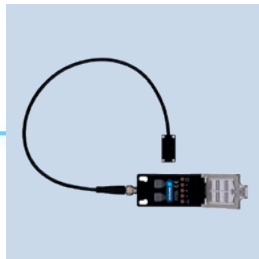
Pressure maintenance valve



Universal intermediate jaw



Magnetic switches



Flexible position sensor



Finger blank



Jaw quick-change system



Inductive proximity switch

① For more information on these products can be found on the following product pages or at [schunk.com](https://www.schunk.com).

## Options and special information

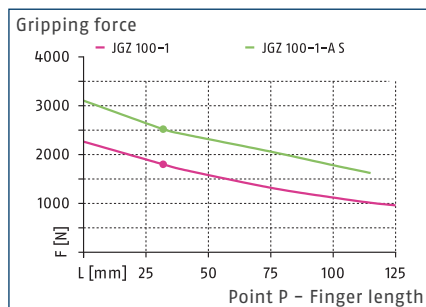
**Gripping force maintenance version AS/IS:** The mechanical gripping force maintenance version ensures minimum gripping force even in the event of a pressure drop. In the AS/S version this acts as a closing force, in the IS version as an opening force.

The JGZ series is especially suitable for economic handling solutions and distinguishes by its high cost-benefit ratio.

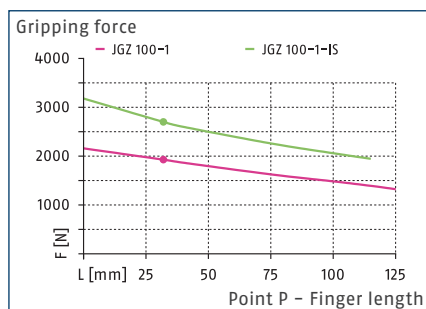
**Food-grade lubrication:** The product contains food-compliant lubricants as standard. The requirements of EN 1672-2:2020 are not fully met. The relevant NSF certificates are available at <https://info.nsf.org/USDA/Listings.asp> using the lubricant information in the operating manual.



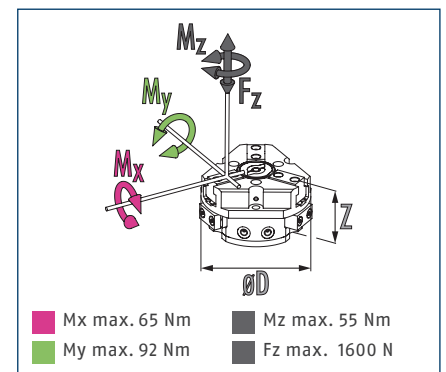
### Gripping force O.D. gripping



### Gripping force I.D. gripping



### Dimensions and maximum loads



① The indicated moments and forces are static values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

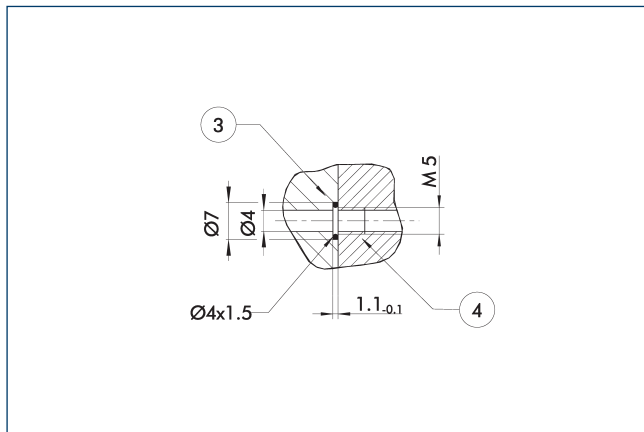
### Technical data

| Description                        |                    | JGZ 100-1  | JGZ 100-1-AS | JGZ 100-1-IS |
|------------------------------------|--------------------|------------|--------------|--------------|
| ID                                 |                    | 0308940    | 0308941      | 0308942      |
| Stroke per jaw                     | [mm]               | 10         | 10           | 10           |
| Closing/opening force              | [N]                | 1800/1920  | 2520/-       | -/2700       |
| Min. spring force                  | [N]                |            | 720          | 780          |
| Weight                             | [kg]               | 1.41       | 1.95         | 1.95         |
| Recommended workpiece weight       | [kg]               | 9          | 9            | 9            |
| Cylinder volume per double stroke  | [cm <sup>3</sup> ] | 120        | 120          | 120          |
| Min./nom./max. operating pressure  | [bar]              | 2/6/8      | 4/6/6.5      | 4/6/6.5      |
| Min./max. air purge pressure       | [bar]              | 0.5/1      | 0.5/1        | 0.5/1        |
| Closing/opening time               | [s]                | 0.1/0.1    | 0.1/0.2      | 0.2/0.1      |
| Closing/opening time with spring   | [s]                |            | 0.25         | 0.25         |
| Max. permissible finger length     | [mm]               | 125        | 115          | 115          |
| Max. permissible weight per finger | [kg]               | 1.1        | 1.1          | 1.1          |
| IP protection class                |                    | 40         | 40           | 40           |
| Min./max. ambient temperature      | [°C]               | 5/90       | 5/90         | 5/90         |
| Repeat accuracy                    | [mm]               | 0.01       | 0.01         | 0.01         |
| Dimensions Ø D x Z                 | [mm]               | 115 x 59.3 | 115 x 79.3   | 115 x 79.3   |

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.



### Hose-free direct connection M5

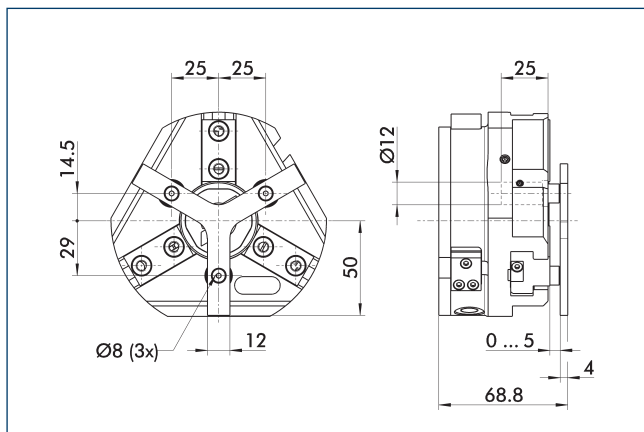


③ Adapter

④ Grippers

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

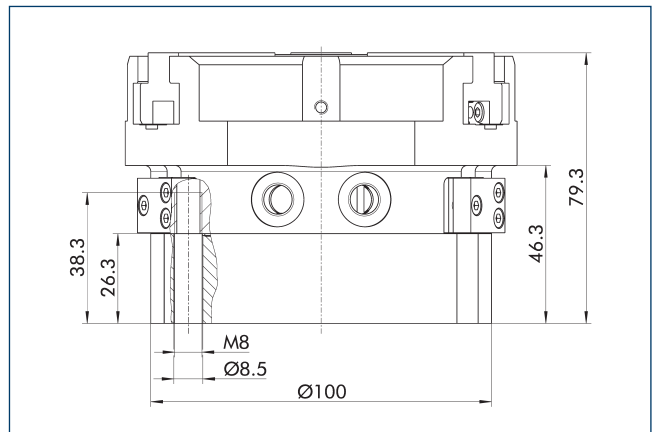
### Spring-loaded pressure piece



For spring-supported positioning of the workpiece against a stop after the gripper has opened. Especially developed for loading machines.

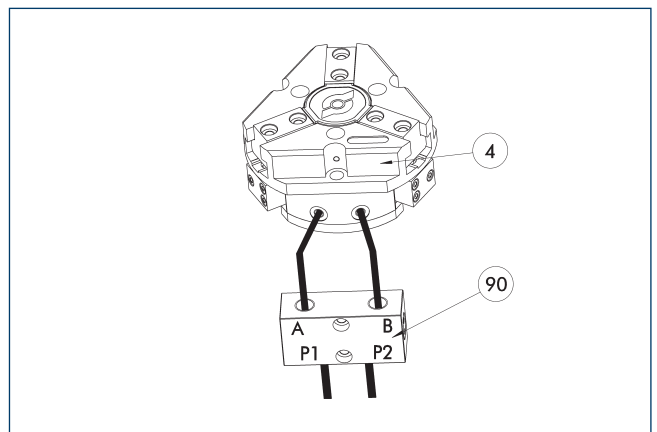
| Description                  | ID      | Stroke<br>[mm] | Min. force<br>[N] |
|------------------------------|---------|----------------|-------------------|
| Spring-loaded pressure piece |         |                |                   |
| A-PZN-plus/DPZ-plus 100      | 0303722 | 5              | 35                |

### Gripping force maintenance version AS/IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. In the AS/S variant this acts as a closing force, in the IS variant as an opening force. Besides this, gripping force maintenance can be used to increase gripping force or for single actuated gripping.

### SDV-P pressure maintenance valve



④ Grippers

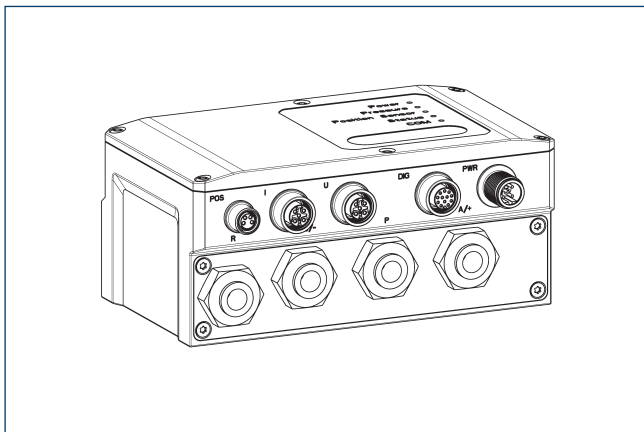
⑨⑩ SDV-P pressure maintenance valve

The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

| Description                                     | ID      | Recommended hose diameter<br>[mm] |
|-------------------------------------------------|---------|-----------------------------------|
| Pressure maintenance valve                      |         |                                   |
| SDV-P 07                                        | 0403131 | 8                                 |
| Pressure maintenance valve with air bleed screw |         |                                   |
| SDV-P 07-E                                      | 0300121 | 8                                 |

① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at [schunk.com](http://schunk.com).

## Pneumatic positioning device PPD

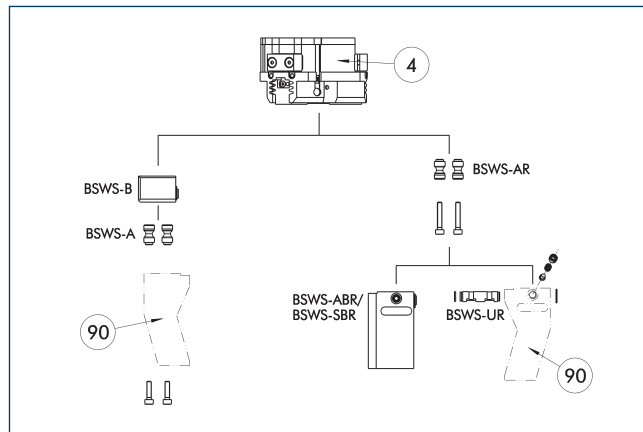


The PPD allows flexibility in all applications with pneumatic grippers through free positioning, gripping force and speed adjustment.

| Description                                              | ID      |  |
|----------------------------------------------------------|---------|--|
| Pneumatic positioning device                             |         |  |
| PPD 20-IOL                                               | 1540700 |  |
| Adapter                                                  |         |  |
| A GGN0804-1204-A                                         | 1540691 |  |
| IO-Link connection cable                                 |         |  |
| KA GGN1205-1212-IOL-00100-A                              | 1540697 |  |
| Voltage supply connection cable - cable track compatible |         |  |
| KA GLN12B05-LK-01000-A                                   | 1540660 |  |
| Cable extension                                          |         |  |
| KV GGN0804-I0-00150-A                                    | 1540662 |  |
| KV GGN0804-I0-00300-A                                    | 1540663 |  |
| Assembly set                                             |         |  |
| Assembly set PPD                                         | 1540705 |  |

① In addition to the PPD, a position sensor (SCHUNK IO-Link sensor or analog sensor (4...20 mA)) is required.

## BSWS jaw quick-change jaw systems



④ Grippers

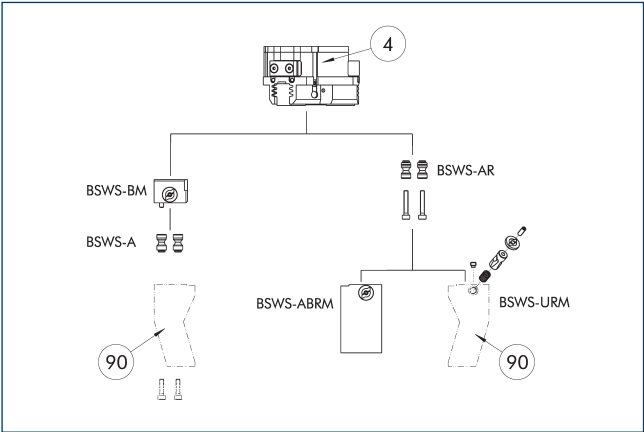
⑨ Customized gripper fingers

There are various jaw quick-change systems available for the gripper. For detailed information, please refer to the corresponding product.

| Description                               | ID      | Scope of delivery |
|-------------------------------------------|---------|-------------------|
| Jaw quick-change system adapter pin       |         |                   |
| BSWS-A 100                                | 0303026 | 2                 |
| BSWS-AR 100                               | 0300094 | 2                 |
| Quick-change jaw system base              |         |                   |
| BSWS-B 100                                | 0303027 | 1                 |
| Jaw quick-change system finger blank      |         |                   |
| BSWS-ABR-PGZN-plus 100                    | 0300074 | 1                 |
| BSWS-SBR-PGZN-plus 100                    | 0300084 | 1                 |
| Jaw quick-change system locking mechanism |         |                   |
| BSWS-UR 100                               | 0302993 | 1                 |

① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked. Only systems that are listed in the table, can be used.

Jaw quick-change system BSWS-M



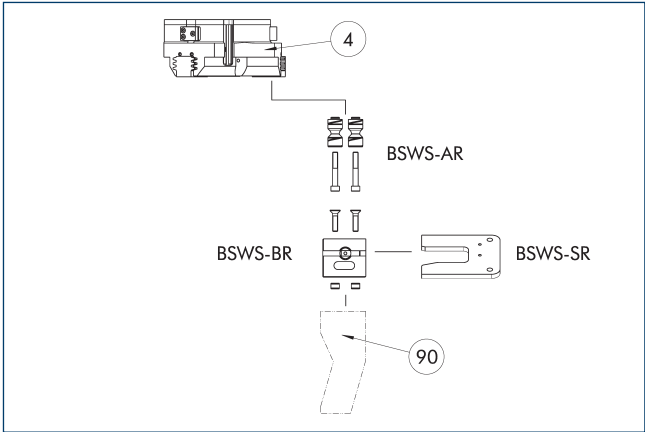
④ Grippers                      90 Customized gripper fingers

There are various jaw quick-change systems available for the gripper. For detailed information, please refer to the corresponding product.

| Description                               | ID      | Scope of delivery |
|-------------------------------------------|---------|-------------------|
| Jaw quick-change system adapter pin       |         |                   |
| BSWS-A 100                                | 0303026 | 2                 |
| BSWS-AR 100                               | 0300094 | 2                 |
| Quick-change jaw system base              |         |                   |
| BSWS-BM 100                               | 1313902 | 1                 |
| Jaw quick-change system finger blank      |         |                   |
| BSWS-ABRM-PGZN-plus 100                   | 1420853 | 1                 |
| Jaw quick-change system locking mechanism |         |                   |
| BSWS-URM 100                              | 1398403 | 1                 |

① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked. Only systems that are listed in the table, can be used.

Jaw quick-change system BSWS-R



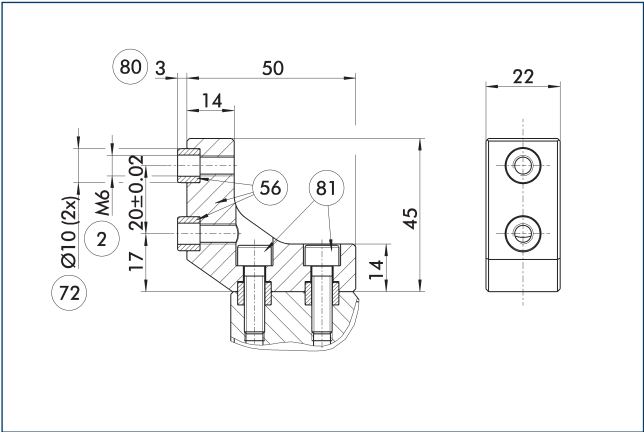
④ Grippers                      90 Customized gripper fingers

If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked. Only systems that are listed in the table, can be used.

| Description                         | ID      | Scope of delivery |
|-------------------------------------|---------|-------------------|
| Jaw quick-change system adapter pin |         |                   |
| BSWS-AR 100                         | 0300094 | 2                 |
| Quick-change jaw system base        |         |                   |
| BSWS-BR 100                         | 1555933 | 1                 |
| Storage system                      |         |                   |
| BSWS-SR 100                         | 1555959 | 1                 |
| Attachment kit for proximity switch |         |                   |
| AS-IN40-BSWS-SR 80/100              | 1561458 | 1                 |
| Inductive proximity switch          |         |                   |
| IN 40-S-M12                         | 0301574 |                   |
| IN 40-S-M8                          | 0301474 |                   |
| INK 40-S                            | 0301555 |                   |

① Only systems that are listed in the table, can be used.

ZBA-L-plus 100 intermediate jaws

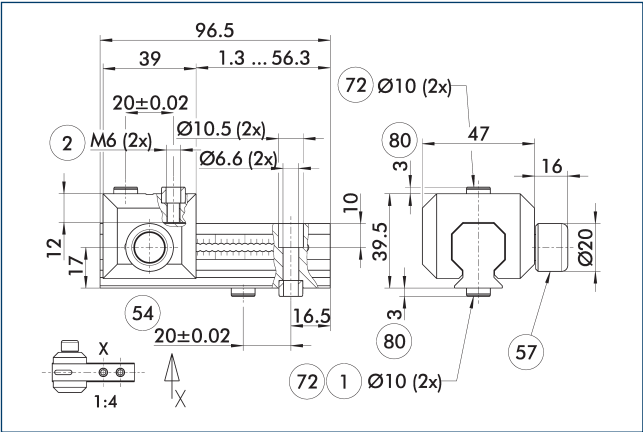


- 2 Finger connection
- 56 Included in the scope of delivery
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 81 Not included in the scope of delivery

The optional ZBA-L-plus intermediate jaws allow the screw connection diagram of the top jaws to be rotated by 90°. This makes it easier to design and produce top jaws (particularly for long versions) because no deep through-bores are required.

| Description      | ID      | Material | Finger interface | Scope of delivery |
|------------------|---------|----------|------------------|-------------------|
| Intermediate jaw |         |          |                  |                   |
| ZBA-L-plus 100   | 0311742 | Aluminum | PGN-plus 100     | 1                 |

UZZ 100 universal intermediate jaw



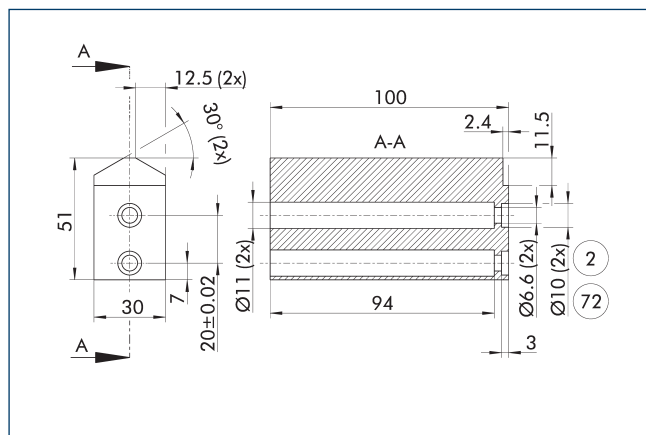
- 1 Gripper connection
- 2 Finger connection
- 54 Optional right or left connection
- 57 Locking
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The drawing shows the UZZ universal intermediate jaw. The fully removable UZZ-S slide (can also be ordered separately) allows for a quick jaw change.

| Description                          | ID      | Grid dimension |
|--------------------------------------|---------|----------------|
|                                      |         | [mm]           |
| Universal intermediate jaw           |         |                |
| UZZ 100                              | 0300044 | 2.5            |
| Finger blank                         |         |                |
| ABR-PGZN-plus 100                    | 0300012 |                |
| SBR-PGZN-plus 100                    | 0300022 |                |
| Slide for universal intermediate jaw |         |                |
| UZZ-S 100                            | 5518272 | 2.5            |

- ① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked.

### Finger blanks ABR/SBR-PGZN-plus 100



② Finger connection

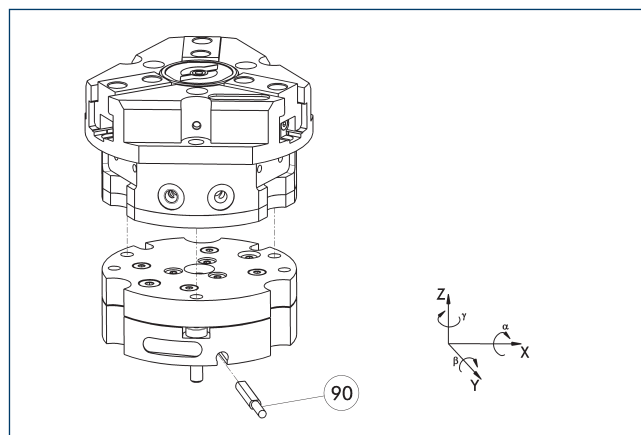
⑦② Fit for centering sleeves

The drawing shows the finger blank which can be reworked by the customer.

| Description       | ID      | Material          | Scope of delivery |
|-------------------|---------|-------------------|-------------------|
| Finger blank      |         |                   |                   |
| ABR-PGZN-plus 100 | 0300012 | Aluminum (3.4365) | 1                 |
| SBR-PGZN-plus 100 | 0300022 | Steel (1.7131)    | 1                 |

① When finger blanks are used, the closing stroke of individual gripper series may be limited. Please check this in detail in advance using the CAD data and adjust the reworking of the fingers accordingly.

### Tolerance compensation unit TCU

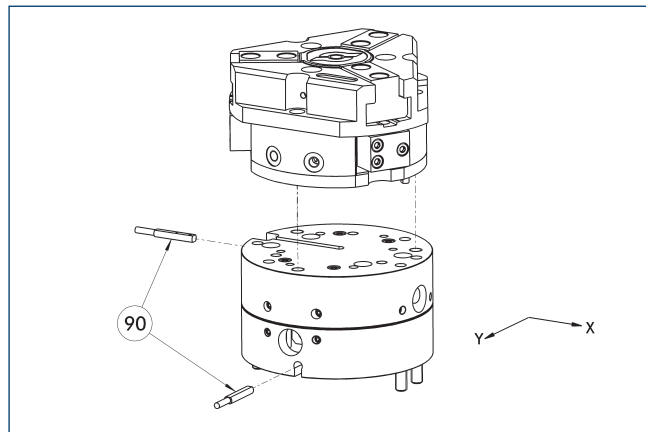


⑨⑩ Monitoring of locking

Grippers can be directly mounted without an adapter plate. Tolerance compensation unit and gripper have an identical screw connection diagram. Therefore the tolerance compensation units can be assembled later. Please consider the additional assembly height of the tolerance compensation unit. For details please refer to our catalog robot accessories.

| Description       | ID      | Locking | Deflection                            | Often combined |
|-------------------|---------|---------|---------------------------------------|----------------|
| Compensation unit |         |         |                                       |                |
| TCU-Z-100-2-MV    | 0324798 | yes     | $\pm 1^\circ/\pm 1^\circ/\pm 1^\circ$ | ●              |
| TCU-Z-100-2-0V    | 0324799 | no      | $\pm 1^\circ/\pm 1^\circ/\pm 1^\circ$ |                |

### Compensation unit AGE-F

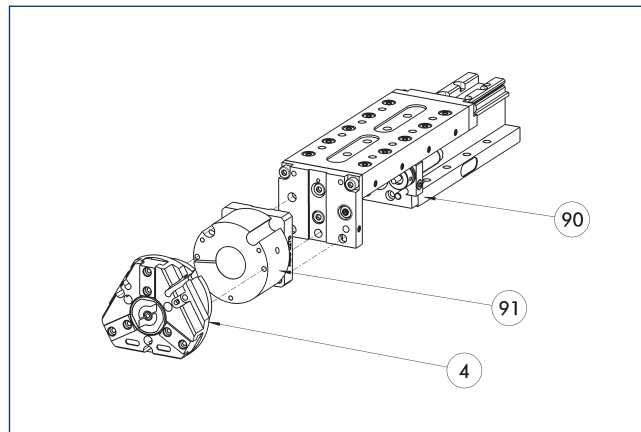


⑨⑩ Monitoring

Grippers can be directly mounted without an adapter plate. For details see our catalog Gripping or Robot Accessories.

| Description       | ID      | Compensation XY | Reset force | Often combined |
|-------------------|---------|-----------------|-------------|----------------|
|                   |         | [mm]            | [N]         |                |
| Compensation unit |         |                 |             |                |
| AGE-F-XY-080-1    | 0324960 | ± 5             | 39          |                |
| AGE-F-XY-080-2    | 0324961 | ± 5             | 85          |                |
| AGE-F-XY-080-3    | 0324962 | ± 5             | 90          | ●              |

### Modular Assembly Automation



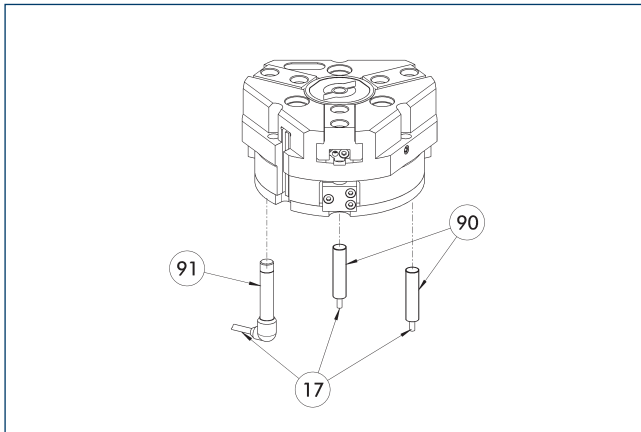
④ Grippers

⑨⑩ ASG adapter plate

⑨⑩ Linear module CLM/KLM/LM/ELP/ELM/ELS/HLM

Grippers and linear modules can be combined with standard adapter plates from the modular assembly system. For more information see our main catalog "Modular Assembly Automation".

## Inductive proximity switches



17 Cable outlet

91 Sensor IN...-SA

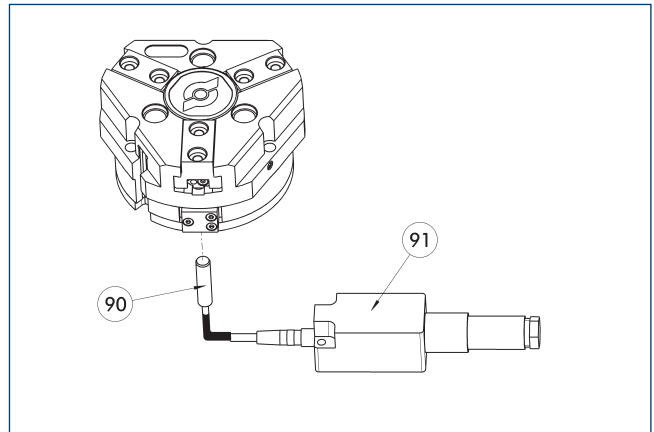
90 Sensor IN ...

Directly mounted end position monitoring.

| Description                                                 | ID       | Often combined |
|-------------------------------------------------------------|----------|----------------|
| <b>Inductive proximity switch</b>                           |          |                |
| IN 80-S-M12                                                 | 0301578  |                |
| IN 80-S-M8                                                  | 0301478  | ●              |
| INK 80-S                                                    | 0301550  |                |
| <b>Inductive proximity switch with lateral cable outlet</b> |          |                |
| IN 80-S-M12-SA                                              | 0301587  |                |
| IN 80-S-M8-SA                                               | 0301483  | ●              |
| INK 80-S-SA                                                 | 0301566  |                |
| <b>Connection cables</b>                                    |          |                |
| KA BG08-L 3P-0300-PNP                                       | 0301622  | ●              |
| KA BG08-L 3P-0500-PNP                                       | 0301623  |                |
| KA BG12-L 3P-0500-PNP                                       | 30016369 |                |
| KA BW08-L 3P-0300-PNP                                       | 0301594  |                |
| KA BW08-L 3P-0500-PNP                                       | 0301502  |                |
| KA BW12-L 3P-0300-PNP                                       | 0301503  |                |
| KA BW12-L 3P-0500-PNP                                       | 0301507  |                |
| <b>Clip for connector/socket</b>                            |          |                |
| CLI-M12                                                     | 0301464  |                |
| CLI-M8                                                      | 0301463  |                |
| <b>Cable extension</b>                                      |          |                |
| KV BG12-SG12 3P-0030-PNP                                    | 0301999  |                |
| KV BG12-SG12 3P-0060-PNP                                    | 0301998  |                |
| KV BW08-SG08 3P-0030-PNP                                    | 0301495  |                |
| KV BW08-SG08 3P-0100-PNP                                    | 0301496  |                |
| KV BW08-SG08 3P-0200-PNP                                    | 0301497  | ●              |
| KV BW12-SG12 3P-0030-PNP                                    | 0301595  |                |
| KV BW12-SG12 3P-0100-PNP                                    | 0301596  |                |
| KV BW12-SG12 3P-0200-PNP                                    | 0301597  |                |
| <b>Sensor distributor</b>                                   |          |                |
| V2-M12                                                      | 0301776  | ●              |
| V2-M8                                                       | 0301775  | ●              |
| V4-M8                                                       | 0301746  |                |
| V8-M8                                                       | 0301751  |                |

- ① Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

## Flexible position sensor



90 FPS-S sensor

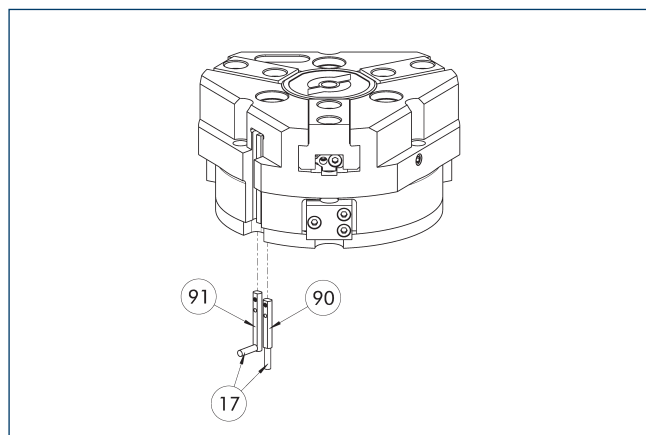
91 FPS-F5 evaluation electronic

Flexible position monitoring of up to five positions.

| Description                   | ID      |  |
|-------------------------------|---------|--|
| <b>Attachment kit for FPS</b> |         |  |
| AS-FPS-PGZN-plus 100-1        | 0301634 |  |
| <b>Sensor</b>                 |         |  |
| FPS-S M8                      | 0301704 |  |
| <b>Evaluation electronics</b> |         |  |
| FPS-F5                        | 0301805 |  |
| <b>Cable extension</b>        |         |  |
| KV BG08-SG08 3P-0050          | 0301598 |  |
| KV BG08-SG08 3P-0100          | 0301599 |  |

- ① When using an FPS system, an FPS sensor (FPS-S) as well as an electronic processor (FPS-F5 / F5 T) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are optionally available – see catalog chapter “Accessories.”

### Electronic magnetic switch MMS



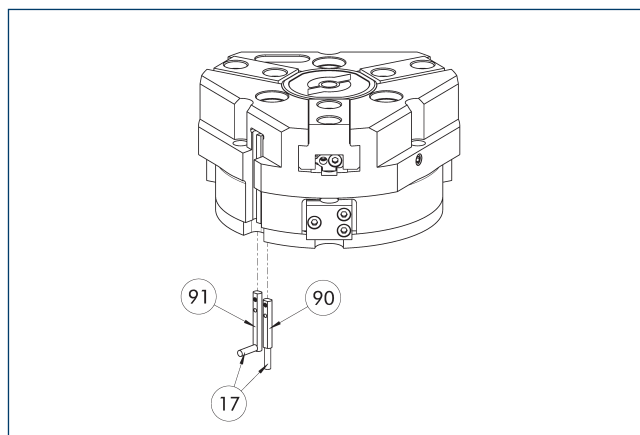
- ①⑦ Cable outlet  
⑨① Sensor MMS 22...-SA  
⑨② Sensor MMS 22..

End position monitoring for mounting in the C-slot.

| Description                                                   | ID      | Often combined |
|---------------------------------------------------------------|---------|----------------|
| <b>Electronic magnetic switch</b>                             |         |                |
| MMS 22-S-M8-PNP                                               | 0301032 | ●              |
| MMSK 22-S-PNP                                                 | 0301034 |                |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                |
| MMS 22-S-M8-PNP-SA                                            | 0301042 | ●              |
| MMSK 22-S-PNP-SA                                              | 0301044 |                |
| <b>Reed Switches</b>                                          |         |                |
| RMS 22-S-M8                                                   | 0377720 | ●              |
| <b>Connection cables</b>                                      |         |                |
| KA BG08-L 3P-0300-PNP                                         | 0301622 | ●              |
| KA BG08-L 3P-0500-PNP                                         | 0301623 |                |
| KA BW08-L 3P-0300-PNP                                         | 0301594 |                |
| KA BW08-L 3P-0500-PNP                                         | 0301502 |                |
| <b>Clip for connector/socket</b>                              |         |                |
| CLI-M8                                                        | 0301463 |                |
| <b>Cable extension</b>                                        |         |                |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 | ●              |
| <b>Sensor distributor</b>                                     |         |                |
| V2-M8                                                         | 0301775 | ●              |
| V4-M8                                                         | 0301746 |                |
| V8-M8                                                         | 0301751 |                |

- ① Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

### Programmable magnetic switch MMS 22-PI1



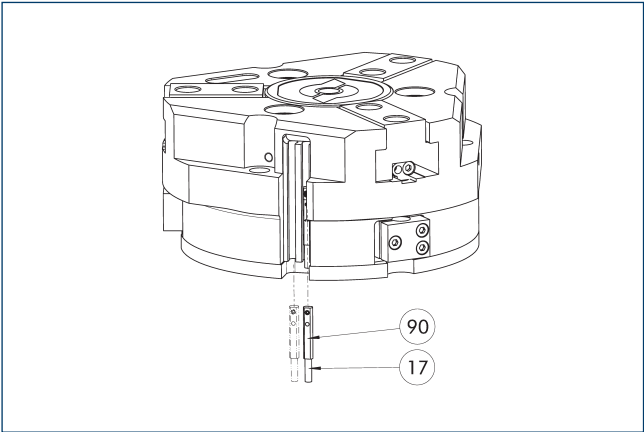
- ①⑦ Cable outlet  
⑨① Sensor MMS 22 ..-PI1-...-SA  
⑨② Sensor MMS 22 PI1-...

Position monitoring with one programmable position per sensor and integrated electronic system in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery, ID 0301030) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

| Description                                                      | ID      | Often combined |
|------------------------------------------------------------------|---------|----------------|
| <b>Programmable magnetic switch</b>                              |         |                |
| MMS 22-PI1-S-M8-PNP                                              | 0301160 | ●              |
| MMSK 22-PI1-S-PNP                                                | 0301162 |                |
| <b>Programmable magnetic switch with lateral cable outlet</b>    |         |                |
| MMS 22-PI1-S-M8-PNP-SA                                           | 0301166 | ●              |
| MMSK 22-PI1-S-PNP-SA                                             | 0301168 |                |
| <b>Programmable magnetic switch with stainless steel housing</b> |         |                |
| MMS 22-PI1-S-M8-PNP-HD                                           | 0301110 | ●              |
| MMSK 22-PI1-S-PNP-HD                                             | 0301112 |                |

- ① Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

### Programmable magnetic switch MMS 22-PI2



17 Cable outlet

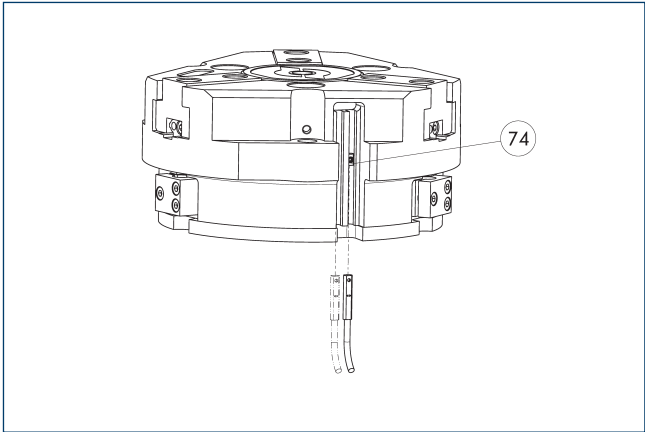
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics integrated in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery, ID 0301030) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

| Description                                               | ID      | Often combined |
|-----------------------------------------------------------|---------|----------------|
| Programmable magnetic switch                              |         |                |
| MMS 22-PI2-S-M8-PNP                                       | 0301180 | ●              |
| MMSK 22-PI2-S-PNP                                         | 0301182 |                |
| Programmable magnetic switch with lateral cable outlet    |         |                |
| MMS 22-PI2-S-M8-PNP-SA                                    | 0301186 | ●              |
| MMSK 22-PI2-S-PNP-SA                                      | 0301188 |                |
| Programmable magnetic switch with stainless steel housing |         |                |
| MMS 22-PI2-S-M8-PNP-HD                                    | 0301130 | ●              |
| MMSK 22-PI2-S-PNP-HD                                      | 0301132 |                |

- ① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

### MMS-P programmable magnetic switch



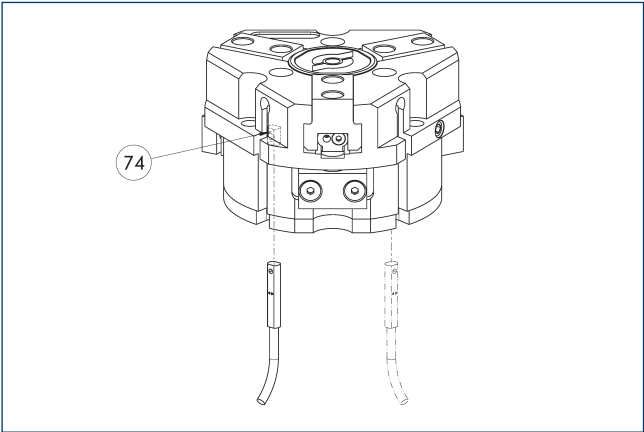
74 Limit stop for sensor

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

| Description                  | ID      | Often combined |
|------------------------------|---------|----------------|
| Programmable magnetic switch |         |                |
| MMSK-P 22-S-PNP              | 0301371 |                |
| MMS-P 22-S-M8-PNP            | 0301370 | ●              |
| Connection cables            |         |                |
| KA GLN0804-LK-00500-A        | 0307767 | ●              |
| KA GLN0804-LK-01000-A        | 0307768 |                |
| KA WLN0804-LK-00500-A        | 0307765 |                |
| KA WLN0804-LK-01000-A        | 0307766 |                |
| Clip for connector/socket    |         |                |
| CLI-M8                       | 0301463 |                |
| Sensor distributor           |         |                |
| V2-M8-4P-2XM8-3P             | 0301380 |                |

- ① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

Programmable magnetic switch MMS-I0-Link



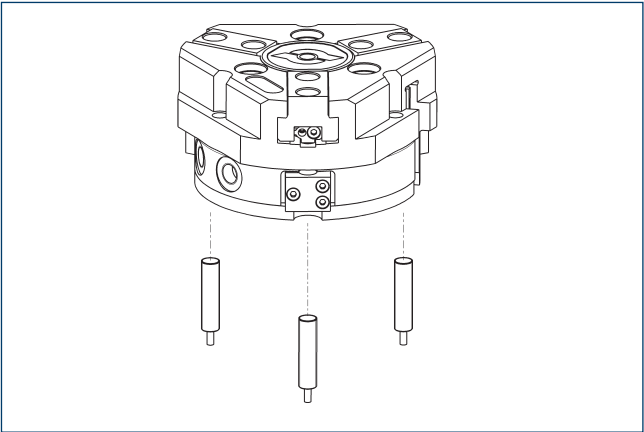
74 Limit stop for sensor

Sensor for multi-position monitoring through detection of the complete gripper stroke. The sensor is mounted directly in the C-slot of the gripper. The sensor is programmed for the gripper via the IO-Link interface, Magnet teaching tool MT (included in scope of delivery; ID 0301030) or the ST plug teaching tool (not included in scope of delivery; ID 0301026). An IO-Link master is required for operation.

| Description                  | ID      |  |
|------------------------------|---------|--|
| Programmable magnetic switch |         |  |
| MMS 22-I0L-M08               | 0315830 |  |
| MMS 22-I0L-M12               | 0315835 |  |

- ① One sensor is required for each gripper. No additional mounting kit is required – the gripper is equipped for use of the sensor by default. Further information and technical data can be found in the catalog chapter sensor systems.

Cylindrical reed switches



End position monitoring can be mounted with an attachment kit.

| Description                         | ID      |  |
|-------------------------------------|---------|--|
| Attachment kit for proximity switch |         |  |
| AS-RMS 80 PGN/PZN-plus 100/125      | 0377726 |  |
| Reed Switches                       |         |  |
| RMS 80-S-M8                         | 0377721 |  |

- ① Two sensors (closer/S) are required for each unit and extension cables are available as an option. This attachment kit needs to be ordered optionally as an accessory. Two mounting kits are required for each gripper. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.





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