

Superior Clamping and Gripping



Product Information

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













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.



- Housingis weight-optimized due to the use of high-strength aluminum alloy
- T-slot guidance loadable, robust base jaw guidance for extremely long gripper fingers
- Wedge-hook design for high force transmission and centric gripping
- **Base Jaw** for the connection of workpiece-specific gripper fingers
- 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

Scope of delivery: Brackets for proximity switches, centering sleeves, 0-rings for direct connection, assembly instructions (operating manual with declaration of incorporation is available online)

Gripping force maintenance device: 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 purely the times that the base jaws or fingers are in motion. 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

- 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.



① For more information on these products can be found on the following product pages or at schunk.com.

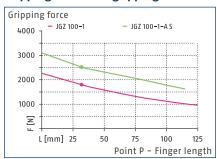
Options and special information

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.

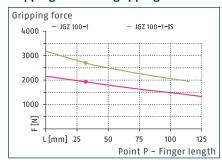
The JGZ series is especially suitable for economic handling solutions and distinguishes by its high cost-benefit ratio.



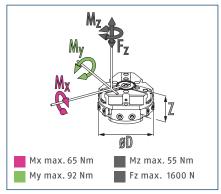
Gripping force O.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



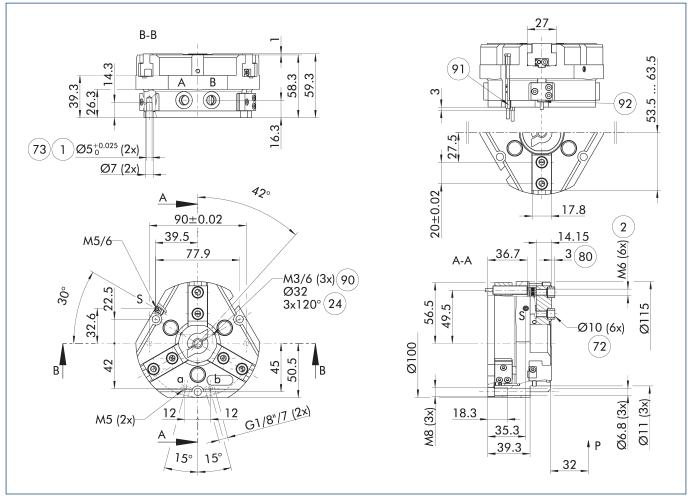
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

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
Fluid consumption double stroke	[cm³]	120	120	120
Min./nom./max. operating pressure	[bar]	21618	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 mass 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.

Main view

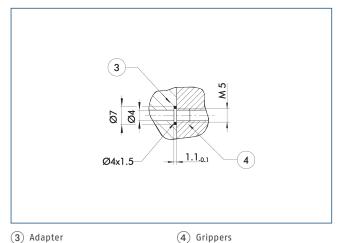


The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

- ① The SDV-P pressure maintenance valve can also be used for I.D. or 0.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see catalog section on accessories).
- A, a Main / direct connection, gripper opening
- B, b Main / direct connection, gripper closing
- S Air purge connection
- (1) Gripper connection
- 2 Finger connection
- 24) Bolt circle

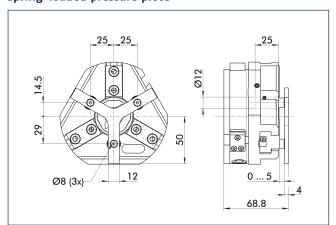
- 72 Fit for centering sleeves
- (73) Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part
- Thread below the cover for fastening external attachments
- 91) Sensor MMS 22..
- 92 Sensor IN ...

Hose-free direct connection M5



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

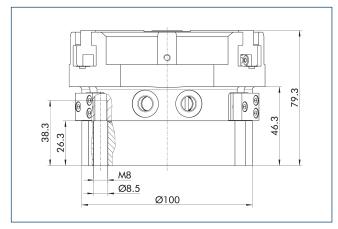
Spring-loaded pressure piece



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

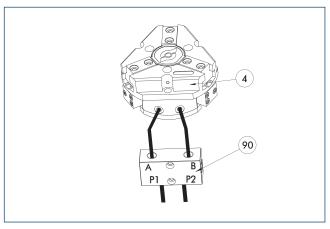
Description	ID	Stroke	Min. force
		[mm]	[N]
Spring-loaded pressure piece			
A-PZN-plus/DPZ-plus 100	0303722	5	35

Gripping force maintenance device 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. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

SDV-P pressure maintenance valve



4 Grippers

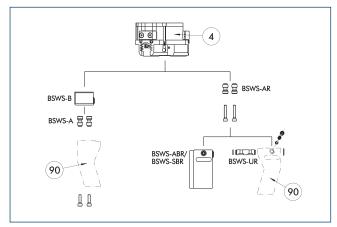
90 SDV-P pressure maintenance valve

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
		[mm]
Pressure maintenance	e valve	
SDV-P 07	0403131	8
Pressure maintenance	e valve with a	ir 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.

BSWS jaw quick-change jaw systems



4 Grippers

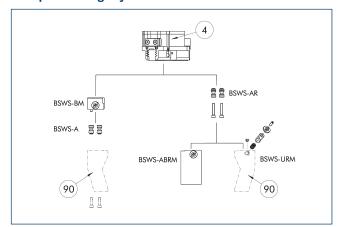
90 Customized gripper fingers

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 adapt	ter 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 finge	r blank	
BSWS-ABR-PGZN-plus 100	0300074	1
BSWS-SBR-PGZN-plus 100	0300084	1
Jaw quick-change system lockir	ng mechanism	
BSWS-UR 100	0302993	1

 $\ensuremath{\textcircled{\scriptsize 1}}$ Only systems that are listed in the table, can be used.

Jaw quick-change system BSWS-M



4 Grippers

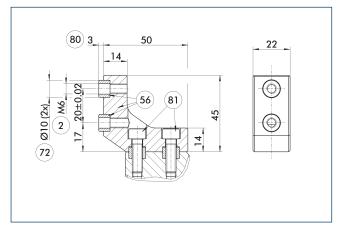
90 Customized gripper fingers

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 adapte	er 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	g mechanism	
BSWS-URM 100	1398403	1

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

ZBA-L-plus 100 intermediate jaws

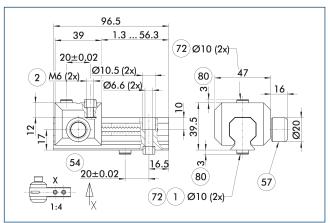


- 2 Finger connection
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 81) Not included in the scope of delivery

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

UZB 100 universal intermediate jaw

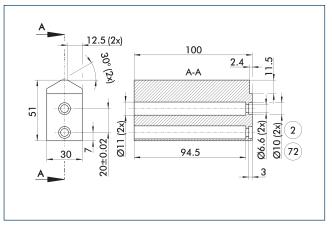


- 1 Gripper connection
- (2) Finger connection
- (54) Optional right or left connection
- 57 Locking
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

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

Description	ID	Grid dimension
		[mm]
Universal intermediate j	aw	
UZB 100	0300044	2.5
Finger blank		
ABR-PGZN-plus 100	0300012	
SBR-PGZN-plus 100	0300022	
Slide for universal interr	mediate jaw	
UZB-S 100	5518272	2.5

Finger blanks ABR- / SBR-PGZN-plus 100

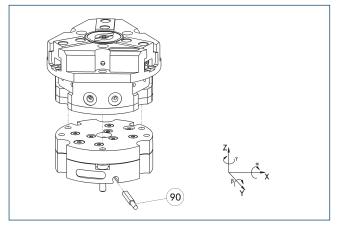


- (2) Finger connection
- 72 Fit for centering sleeves

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	1
SBR-PGZN-plus 100	0300022	Steel	1

Tolerance compensation unit TCU

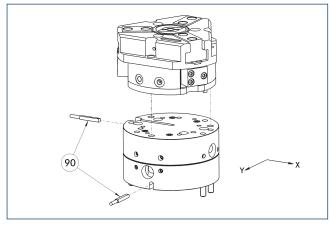


90 Monitoring of locking

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	±1°/±1°/±1°	•
TCU-Z-100-2-0V	0324799	no	±1°/±1°/±1°	

Compensation unit AGE-F

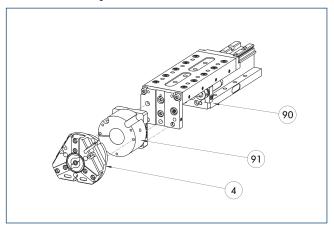


90 Monitoring

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	•

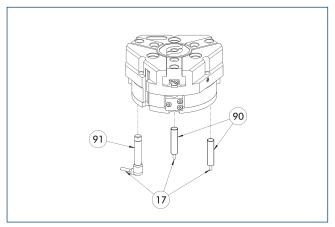
Modular Assembly Automation



- (4) Grippers
- (91) ASG adapter plate
- © CLM/KLM/LM/ELP/ELM/ELS/HLM linear modules

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



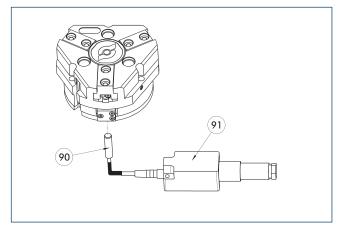
- (17) Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

Directly mounted end position monitoring.

Inductive proximity switches IN 80-S-M12 0301578 IN 80-S-M8 0301478 • INK 80-S 0301550 Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA 0301587 IN 80-S-M8-SA 0301483 • INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 • KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0200-PNP 0301495 KV BW08-SG08 3P-0200-PNP 0301497 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0000-PNP 0301596 KV BW12-SG12 3P-0000-PNP 0301597 Sensor distributor V2-M12 0301776 • V2-M8 0301775 V4-M8 0301775 V4-M8 0301776 V4-M8 0301776 V8-M8 0301775	Description	ID	Often combined
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INK 80-S Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA IN 80-S-M8-SA INK 80-S-SA INK 80-S-SO		0301578	
Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA 0301587 IN 80-S-M8-SA 0301483 INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0300-PNP 0301507 Clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0030-PNP 0301998 KV BW08-SG08 3P-0100-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301596 KV BW12-SG12 3P-0100-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 • V4-M8	IN 80-S-M8	0301478	•
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IN 80-S-M8-SA 0301483	Inductive proximity switch with la	teral cable ou	tlet
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CLIP for plug/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension 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 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	KA BW12-L 3P-0300-PNP	0301503	
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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 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	CLI-M8	0301463	
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 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	Cable extension		
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 Sensor distributor V2-M12 V2-M8 0301776 V4-M8 0301746	KV BG12-SG12 3P-0030-PNP	0301999	
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 Sensor distributor V2-M12 0301776 V2-M8 0301775 • V4-M8 0301746	KV BG12-SG12 3P-0060-PNP	0301998	
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 Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	KV BW08-SG08 3P-0030-PNP	0301495	
KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KV BW08-SG08 3P-0100-PNP	0301496	
KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	KV BW08-SG08 3P-0200-PNP	0301497	•
KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor 0301776 V2-M12 0301775 V2-M8 0301775 V4-M8 0301746	KV BW12-SG12 3P-0030-PNP	0301595	
Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	KV BW12-SG12 3P-0100-PNP	0301596	
V2-M12 0301776	KV BW12-SG12 3P-0200-PNP	0301597	
V2-M8 0301775 ● V4-M8 0301746	Sensor distributor		
V4-M8 0301746	V2-M12	0301776	•
	V2-M8	0301775	•
V8-M8 0301751	V4-M8	0301746	
	V8-M8	0301751	

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



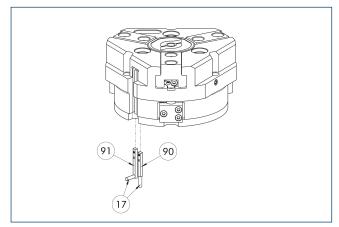
- 90 FPS-S sensor
- (91) FPS-F5 evaluation electronic

Flexible position monitoring of up to five positions.

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

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



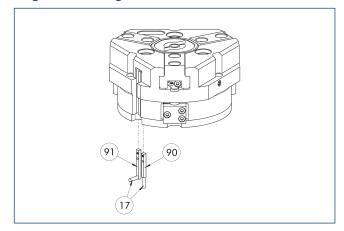
- (17) Cable outlet
- 91) Sensor MMS 22...-SA
- 90 Sensor MMS 22..

End position monitoring for mounting in the C-slot.

Description	ID	Often combined
Electronic magnetic switch		
MMS 22-S-M8-PNP	0301032	•
MMSK 22-S-PNP	0301034	
Electronic magnetic switches with	lateral cable o	outlet
MMS 22-S-M8-PNP-SA	0301042	•
MMSK 22-S-PNP-SA	0301044	
Reed Switches		
RMS 22-S-M8	0377720	•
Connection cables		
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	
clip for plug/socket		
CLI-M8	0301463	
Wireless sensor system		
RSS-T2	0377715	
RSS-T2-US/CA	0377717	
Cable extension		
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
KV BW08-SG08 3P-0200-PNP	0301497	•
Sensor distributor		
V2-M8	0301775	•
V4-M8	0301746	
V8-M8	0301751	

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



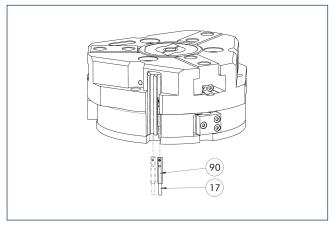
- (17) Cable outlet
- **91** Sensor MMS 22 ..-PI1-...-SA
- 90 Sensor MMS 22 PI1-...

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) 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-PI1-S-M8-PNP	0301160	•		
MMSK 22-PI1-S-PNP	0301162			
Programmable magnetic switch with lateral cable outlet				
MMS 22-PI1-S-M8-PNP-SA	0301166	•		
MMSK 22-PI1-S-PNP-SA	0301168			
Programmable magnetic switch with stainless steel housing				
MMS 22-PI1-S-M8-PNP-HD	0301110	•		
MMSK 22-PI1-S-PNP-HD	0301112			

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

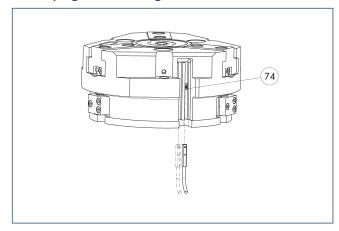
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) 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



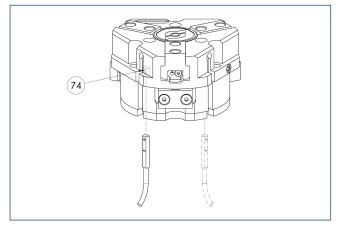
(74) Limit stop for sensor

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	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 plug/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



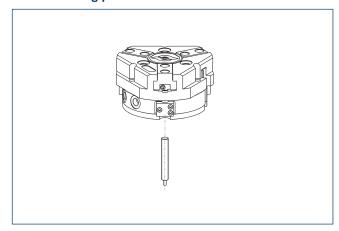
(74) Limit stop for sensor

Sensor for multi-position monitoring through detection of the complete gripper stroke. The sensor is mounted directly in the C-slot of the gripper. Sensor programming on the gripper takes place via the IO-Link interface or the MT magnetic teach tool (included in scope of delivery). An IO-Link master is required for operation.

Description	ID
Programmable magi	netic 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.

APS-Z80 analog position sensor

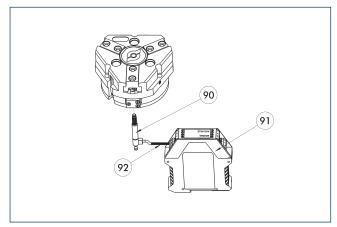


No-contact measuring, analog multi-position monitoring for any number of positions.

Description	ID	Often combined
Mounting kit for APS-Z80		
AS-APS-Z80-PGZN-plus 100-1	0302109	
Analog position sensor		
APS-Z80-K	0302072	
APS-Z80-M8	0302070	•

When using an APS system, one mounting kit (AS-APS-Z80) and one APS-Z80 sensor is required per gripper. The resolution of the sensor can be lower in the peripheral areas of the gripper. You can find further information on the product in the operating manual.

APS-M1 analog position sensor



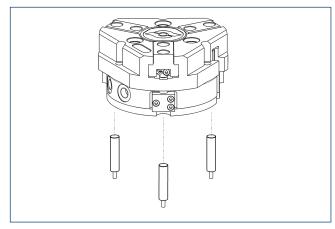
- 90 APS-M1S sensor
- **92** APS-K extension cable
- (91) APS-M1E electronic processor

Analog multi position monitoring for any desired positions

Description	ID
Mounting kit for APS-M1	
AS-APS-M1-PGZN-plus 100-1	0302079
Analog position sensor	
APS-M1S	0302062
Connection cables	
APS-K0200	0302066
APS-K0700	0302068
Evaluation electronics	
APS-M1E	0302064

When using an APS system, for each gripper an attachment kit (AS-APS-M1), an APS-M1S sensor (incl. 3 m cable) as well as an electronics (APS-M1e) are required. An extension cable (APS-K) can be connected between the sensor and the electronics as an option. The max. cable length between the sensor and the electronics is 10 m, between the electronics and their control unit (PLC) it is max. 1 m.

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	

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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