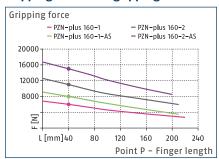
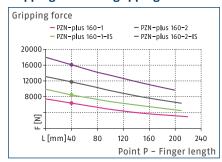


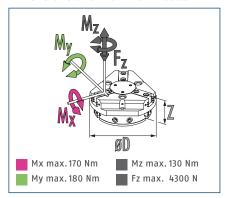
Gripping force O.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



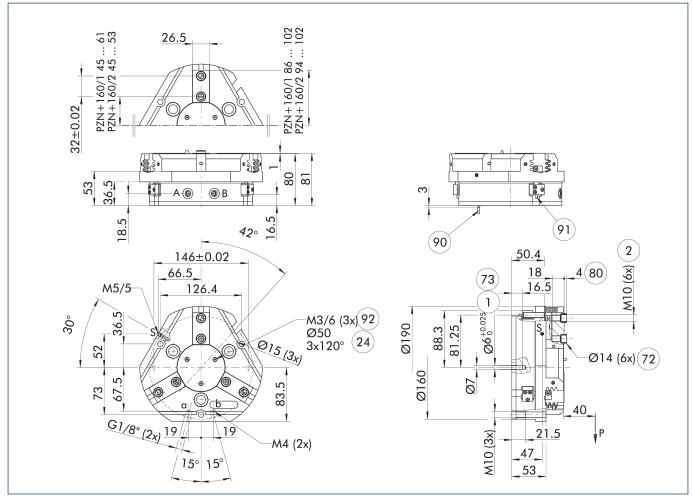
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		PZN-plus 160-1	PZN-plus 160-2	PZN-plus 160-1-AS	PZN-plus 160-2-AS	PZN-plus 160-1-IS	PZN-plus 160-2-IS
ID		0303314	0303414	0303514	0303614	0303544	0303644
Stroke per jaw	[mm]	16	8	16	8	16	8
Closing/opening force	[N]	6000/6390	11000/11750	7990/-	15010/-	-/8480	-/16090
Min. spring force	[N]			1990	4010	2090	4340
Weight	[kg]	5.6	5.6	8	8	8	8
Recommended workpiece weight	[kg]	30	55	30	55	30	55
Cylinder volume per double stroke	[cm³]	520	520	875	875	875	875
Min./nom./max. operating pressure	[bar]	2/6/8	2/6/8	4/6/6.5	4/6/6.5	4/6/6.5	4/6/6.5
Min./max. air purge pressure	[bar]	0.5/1	0.5/1	0.5/1	0.5/1	0.5/1	0.5/1
Closing/opening time	[s]	0.5/0.5	0.5/0.5	0.4/0.8	0.4/0.8	0.8/0.4	0.8/0.4
Closing/opening time with spring	[s]			0.80	0.80	0.80	0.80
Max. permissible finger length	[mm]	220	210	210	200	210	200
Max. permissible weight per finger	[kg]	3.5	3.5	3.5	3.5	3.5	3.5
IP protection class		40	40	40	40	40	40
Min./max. ambient temperature	[°C]	5/90	5/90	5/90	5/90	5/90	5/90
Repeat accuracy	[mm]	0.02	0.02	0.02	0.02	0.02	0.02
Dimensions Ø D x Z	[mm]	190 x 81	190 x 81	190 x 111	190 x 111	190 x 111	190 x 111
Options and their characteristics							
Dustproof version		37303314	37303414	37303514	37303614	37303544	37303644
IP protection class		64	64	64	64	64	64
Weight	[kg]	6.5	6.5	8.9	8.9	8.9	8.9
Corrosion-protected version		38303314	38303414	38303514	38303614	38303544	38303644
High-temperature version		39303314	39303414	39303514	39303614	39303544	39303644
Min./max. ambient temperature	[°C]	5/130	5/130	5/130	5/130	5/130	5/130
Power booster version		0372205	0372215	0372225		0372245	
Closing/opening force	[N]	9980/10431	18229/19796	11620/-		-/12160	
Weight	[kg]	7.8	7.8	9.6		9.6	
Maximum pressure	[bar]	6	6	6		6	
Max. permissible finger length	[mm]	125	100	100		100	
Precision version		0303344	0303444	0303494	0303594		

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

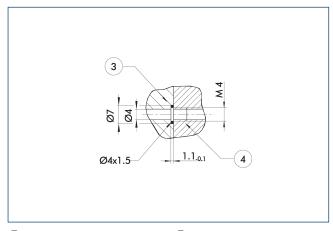


The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

- As an alternative/in addition to spring-assisted mechanical gripping force maintenance, the SDV-P pressure maintenance valve can be used for I.D. and O.D. gripping (see "Accessories" section of catalog).
- 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
- 90 Sensor MMS 22..
- (91) Sensor IN ...
- 92 Thread below the cover for fastening external attachments

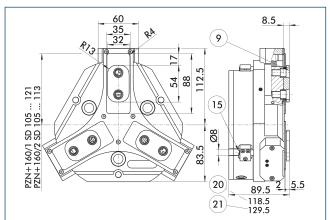
Hose-free direct connection M4



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.

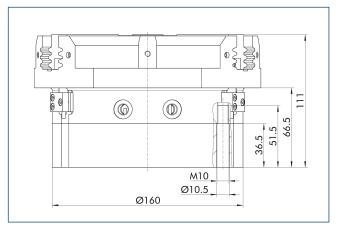
Dustproof version



- (9) For mounting screw connection diagram, see basic version
- 20 For version AS/IS
- (21) Applies for KVZ version
- (15) Sealing bolt

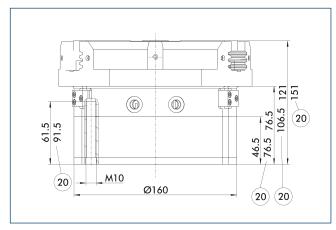
The "dustproof" option increases the degree of protection against penetrating substances. The assembly diagram shifts by the height of the intermediate jaw. The finger length is still measured from the upper edge of the gripper housing.

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.

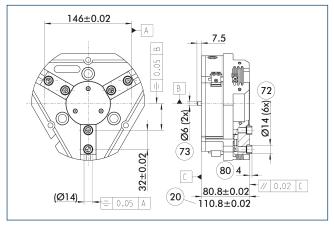
Power booster version



20 For version AS/IS

The KVZ cylinder increases the gripping forces during opening and closing. A second, in series-connected piston also increases the force on the wedge hook. Please consider that grippers which are equipped with a gripping force maintenance device are higher.

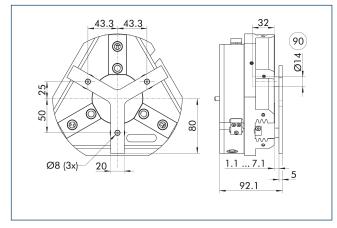
Precision version



- 20 For version AS/IS
- (72) Fit for centering sleeves
- (73) Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part

The indicated tolerances just refer to the variants of precision versions shown in the chart of technical specifications. All other variants of precision versions are available on request.

Spring-loaded pressure piece



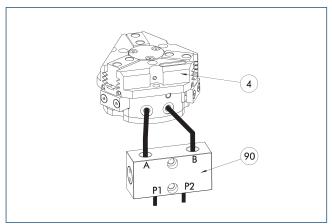
90 Guide pin

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 160	0303724	6	150

The pressure piece cannot be combined with the dustproof option. Please contact us if you require a customized pressure piece.

SDV-P pressure maintenance valve



(4) Grippers

90 SDV-P pressure maintenance

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 maintenar	nce 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.

Pneumatic positioning device PPD

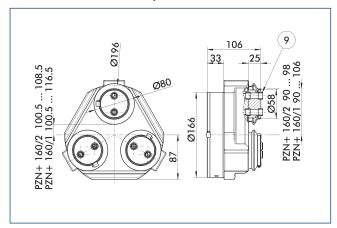


The PPD allows flexibility in all applications with pneumatic grippers through free positioning, gripping force and speed adjustment.

Description	ID
Pneumatic positioning device	
PPD 40-IOL	1540701
Adapter	
A GGN0804-1204-A	1540691
IO-Link connection cable	
KA GGN1205-1212-IOL-00100-A	1540697
Voltage supply connection cable - ca	able track compa
KA GLN12B05-LK-01000-A	1540660
Cable extension	
KV GGN0804-I0-00150-A	1540662
KV GGN0804-10-00300-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.

Protective cover HUE PZN-plus 160



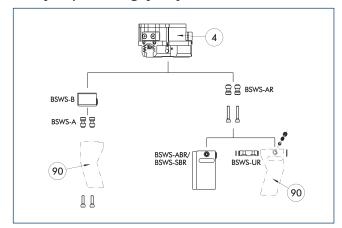
(9) For mounting screw connection diagram, see basic version

The HUE protective cover fully protects the gripper against external influences. The cover is suitable for applications of up to IP65 if an additional sealing of the cover bottom is provided. For detailed information, please see the HUE series. The connection diagram shifts by the height of the intermediate jaw.

Description	ID	IP protection class
Protection cover		
HUE PZN-plus 160	0303484	65

① An inductive monitoring of the gripper in connection with the protective cover HUE is not possible. SCHUNK recommends the use of magnetic sensors that are approved for the respective gripper version.

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	Jaw quick-change system adapter pin					
BSWS-A 160	0303030	2				
BSWS-AR 160	0300096	2				
Quick-change jaw system base						
BSWS-B 160	0303031	1				
Jaw quick-change system finger blank						
BSWS-ABR-PGZN-plus 160	0300076	1				
BSWS-SBR-PGZN-plus 160	0300086	1				
Jaw quick-change system locking mechanism						
BSWS-UR 160	0302995	1				

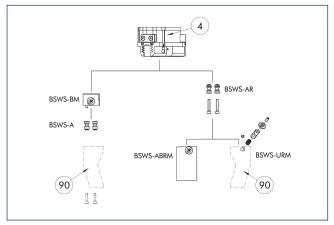
① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked. Only systems that are listed in the table, can be used.

Fields of application

Series	Size	Variant	Suitability	
PZN-plus	160	-1 (6 bar)		
PZN-plus	160	-1-AS/1-IS (6 bar)		
PZN-plus	160	-2 (6 bar)		
PZN-plus	160	-2-AS/2-IS (6 bar)		
PZN-plus	160	KVZ (6 bar)		
Legend				
	Can be combined without restrictions			
	Use with restrictions (see loading limits)			
0000	cannot be combined			

The load limits for describing the application limits can be found in the catalog chapter of the corresponding accessories.

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 160	0303030	2		
BSWS-AR 160	0300096	2		
Quick-change jaw system base	Quick-change jaw system base			
BSWS-BM 160	1418962	1		
Jaw quick-change system finger blank				
BSWS-ABRM-PGZN-plus 160	1420855	1		
Jaw quick-change system locking mechanism				
BSWS-URM 160	1420541	1		

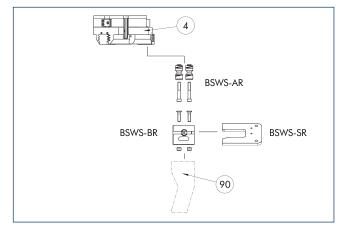
① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked. Only systems that are listed in the table, can be used.

Fields of application

Series	Size	Variant	Suitability		
PZN-plus	160	-1 (6 bar)			
PZN-plus	160	-1-AS/1-IS (6 bar)			
PZN-plus	160	-2 (6 bar)			
PZN-plus	160	-2-AS/2-IS (6 bar)			
PZN-plus	160	KVZ (6 bar)			
Legend					
	Can be combined without restrictions				
	Use with restrictions (see loading limits)				
0000	cannot be combine	cannot be combined			

The load limits for describing the application limits can be found in the catalog chapter of the corresponding accessories.

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 adapte	law quick-change system adapter pin				
BSWS-AR 160	0300096	2			
Quick-change jaw system base					
BSWS-BR 160	1555940	1			
Storage system					
BSWS-SR 160	1555974	1			
Attachment kit for proximity swit	Attachment kit for proximity switch				
AS-IN80-BSWS-SR 125/160	1561467	1			
Inductive proximity switches	Inductive proximity switches				
IN 80-S-M12	0301578				
IN 80-S-M8	0301478				
INK 80-S	0301550				

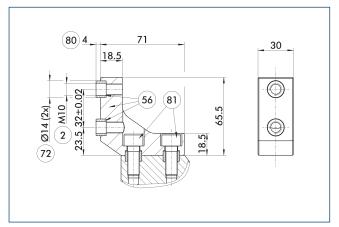
 $\ensuremath{\textcircled{\scriptsize 1}}$ Only systems that are listed in the table, can be used.

Fields of application

Series	Size	Variant	Suitability	
PZN-plus	160	-1 (6 bar)		
PZN-plus	160	-1-AS/1-IS (6 bar)		
PZN-plus	160	-2 (6 bar)		
PZN-plus	160	-2-AS/2-IS (6 bar)		
PZN-plus	160	KVZ (6 bar)		
Legend				
	Can be combined without restrictions			
	Use with restrictions (see loading limits)			
0000	cannot be combine	d		

The load limits for describing the application limits can be found in the catalog chapter of the corresponding accessories.

ZBA-L-plus 160 intermediate jaws

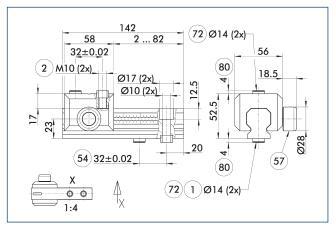


- 2 Finger connection
- (56) Included in the scope of delivery
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 81) Not included in the scope of delivery

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 160	0311762	Aluminum	PGN-plus 160	1

UZB 160 universal intermediate jaw



- 1 Gripper connection
- 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 160	0300046	4	
Finger blank			
ABR-PGZN-plus 160	0300014		
SBR-PGZN-plus 160	0300024		
Slide for universal intermediate jaw			
UZB-S 160	5518274	4	

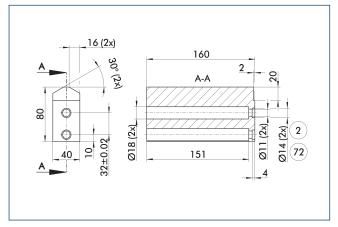
① If the operating pressure is higher than 6 bar, suitability for use beyond the application limits must be checked.

Fields of application

Series	Size	Variant	Suitability		
PZN-plus	160	-1 (6 bar)			
PZN-plus	160	-1-AS/1-IS (6 bar)			
PZN-plus	160	-2 (6 bar)	0000		
PZN-plus	160	-2-AS/2-IS (6 bar)	0000		
PZN-plus	160	KVZ (6 bar)	0000		
Legend					
	Can be combined without restrictions				
	Use with restrictions (see loading limits)				
0000	cannot be combined				

The load limits for describing the application limits can be found in the catalog chapter of the corresponding accessories.

Finger blanks ABR/SBR-PGZN-plus 160



2 Finger connection

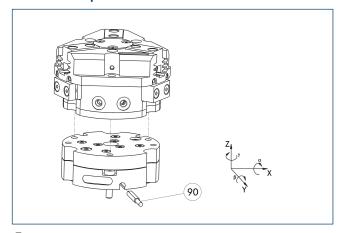
72 Fit for centering sleeves

The drawing shows the finger blank which can be reworked by the customer. $% \label{eq:customer} % \label{eq:customer}$

Description	ID	Material	Scope of delivery
Finger blank			
ABR-PGZN-plus 160	0300014	Aluminum (3.4365)	1
SBR-PGZN-plus 160	0300024	Steel (1.7131)	1

① In the PGL-plus-P gripper series, the use of finger blanks results in a limitation of the closing stroke. Please check this in detail in advance using the CAD data and adjust the reworking of the fingers accordingly.

Tolerance compensation unit TCU

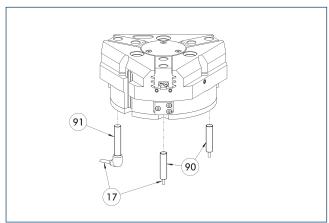


90 Monitoring of locking

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-160-3-MV	0324838	yes	±1°/±1°/±1°	•
TCU-Z-160-3-0V	0324839	no	±1°/±1°/±1°	

Inductive proximity switches



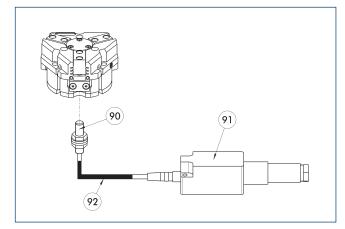
- (17) Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

Directly mounted end position monitoring.

	ID	Often combined
Inductive proximity switches		
N 80-S-M12	0301578	
N 80-S-M8	0301478	•
NK 80-S	0301550	
Inductive proximity switch with la	teral cable ou	tlet
N 80-S-M12-SA	0301587	
N 80-S-M8-SA	0301483	•
NK 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	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	
Clip for connector/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		
/2-M12	0301776	•
/2-M8	0301775	•
/4-M8	0301746	
/8-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



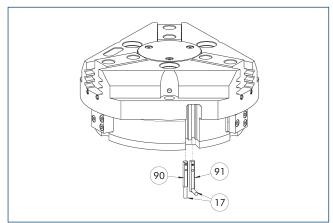
- 90 FPS-S sensor
- 92 Cable extension
- 91) FPS-F5 evaluation electronic

Flexible position monitoring of up to five positions.

Description	ID
Attachment kit for FPS	
AS-FPS-PGZN-plus 160-1	0301638
AS-FPS-PGZN-plus 160-2	0301639
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



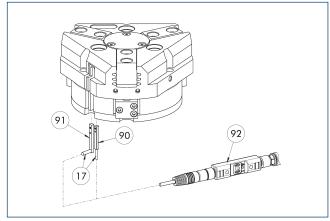
- (17) Cable outlet
- 91) Sensor MMS 22...-SA
- 90 Sensor MMS 22..

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 connector/socket		
CLI-M8	0301463	
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



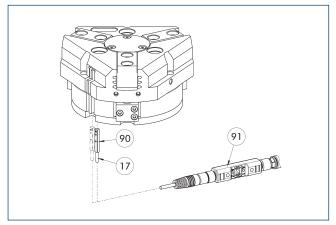
- (17) Cable outlet
- (91) Sensor MMS 22 ..-PI1-...-SA
- 90 Sensor MMS 22 PI1-...
- 92 Connector teaching tool ST

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		
Programmable magnetic switch				
MMS 22-PI1-S-M8-PNP	0301160	•		
MMSK 22-PI1-S-PNP	0301162			
Programmable magnetic switch	with lateral c	able 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			
Plug teaching tool				
ST-MMS 22-PI1-PNP	0301025			

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

(91) Connector teaching tool ST

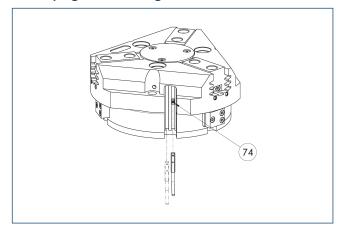
90 MMS 22...-PI2-... sensor

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 c	able outlet
MMS 22-PI2-S-M8-PNP-SA	0301186	•
MMSK 22-PI2-S-PNP-SA	0301188	
Programmable magnetic switch	with stainless	s steel housing
MMS 22-PI2-S-M8-PNP-HD	0301130	•
MMSK 22-PI2-S-PNP-HD	0301132	
Plug teaching tool		
ST-MMS 22-PI2-PNP	0301026	

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



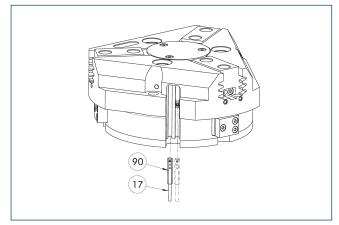
74) Limit stop for sensor

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

Description	ID	Often combined		
Programmable magnetic switch	h			
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



(17) Cable outlet

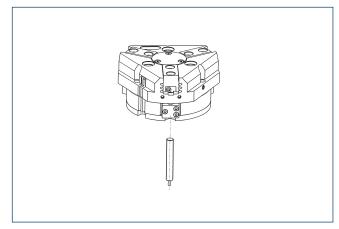
90 Sensor MMS 22-I0L-...

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 or the ST plug teaching tool (not included in scope of delivery; ID 0301026). It is not possible to program the sensor using the Magnet teaching tool MT. An IO-Link master is required for operation.

Description	ID
Programmable mag	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

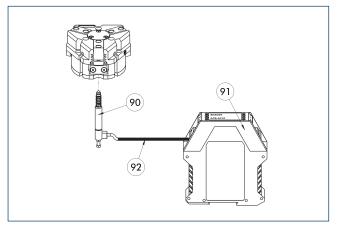


Non-contact measuring, analog multi-position monitoring for any number of positions.

Description	ID	Often combined
Mounting kit for APS-Z80		
AS-APS-Z80-PGZN-plus 160-1/200-2/240-2	0302113	
AS-APS-Z80-PGZN-plus 160-2	0302114	
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



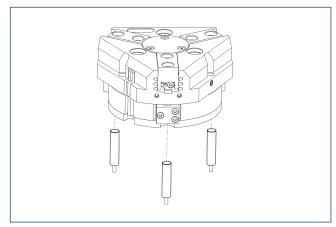
- 90 APS-M1S sensor
- **92** APS-K extension cable
- (91) APS-M1E electronic processor

Analog multi position monitoring for any desired positions

Description	ID	
Mounting kit for APS-M1		
AS-APS-M1-PGZN-plus 160-1/240-2	0302083	
AS-APS-M1-PGZN-plus 160-2	0302084	
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 160-380	0377727	
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.