Assembly and Operating Manual
LGP
2-Finger-parallel gripper

Translation of the original manual

Hand in hand for tomorrow

Imprint

Technical changes:
We reserve the right to make alterations for the purpose of technical improvement.

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Dear Customer,

Thank you for trusting our products and our family-owned company, the leading technology supplier of robots and production machines.

Our team is always available to answer any questions on this product and other solutions. Ask us questions and challenge us. We will find a solution!

Best regards,

Your SCHUNK team

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Please read the operating manual in full and keep it close to the product.

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1 General

1.1 About this manual

This manual contains important information for a safe and appropriate use of the product.

This manual is an integral part of the product and must be kept accessible for the personnel at all times.

Before starting work, the personnel must have read and understood this operating manual. Prerequisite for safe working is the observance of all safety instructions in this manual.

In addition to these instructions, the documents listed under ▸ 1.1.2 [🗋 6] are applicable.

NOTE: The illustrations in this manual are intended to provide a basic understanding and may deviate from the actual version.

1.1.1 Presentation of Warning Labels

To make risks clear, the following signal words and symbols are used for safety notes.

⚠ DANGER

Dangers for persons!

Non-observance will inevitably cause irreversible injury or death.

⚠ WARNING

Dangers for persons!

Non-observance can lead to irreversible injury and even death.

⚠ CAUTION

Dangers for persons!

Non-observance can cause minor injuries.

CAUTION

Material damage!

Information about avoiding material damage.

1.1.2 Applicable documents

- General terms of business *
- Catalog data sheet of the purchased product *
- Assembly and operating manuals of the accessories *

The documents labeled with an asterisk (*) can be downloaded from **schunk.com/downloads**.

1.1.3 Variants

This operating manual applies to the following variations:

- LGP without gripping force maintenance
- LGP with gripping force maintenance "O.D. gripping" (AS)
- LGP with gripping force maintenance "I.D. gripping" (IS)

1.2 Warranty

If the product is used as intended, the warranty is valid for 24 months from the ex-works delivery date under the following conditions:

- Observe the specified maintenance and lubrication intervals
- Observe the ambient conditions and operating conditions

Parts touching the workpiece and wear parts are not included in the warranty.

1.3 Scope of delivery

The scope of delivery includes

- 2-Finger-parallel gripper LGP in the version ordered
- Assembly and Operating Manual
- Accessory pack

1.4 Accessories

The following accessories, which must be ordered separately, are required for the product:

- Sensors

For information regarding which accessory articles can be used with the corresponding product variants, see catalog data sheet.

1.4.1 Sensors

Designation	Type
Programmable magnetic switch	MMS-P

- Exact type designation of the compatible sensors see catalog.
- Information on handling sensors is available at schunk.com or from SCHUNK contact persons.

2 Basic safety notes

2.1 Intended use

The product is designed exclusively for gripping and temporarily holding workpieces or objects.

- The product may only be used within the scope of its technical data, ▸ 3 [🗋 16].
- The product is intended for installation in a machine/ automated system. The applicable guidelines for the machine/ automated system must be observed and complied with.
- The product is intended for industrial and industry-oriented use. Its use outside enclosed spaces is only permitted if suitable protective measures are taken against outdoor exposure. The product is not suitable for use in salty air.
- The product can be used within the permissible load limits and technical data for holding workpieces during simple machining operations, but is not a clamping device according to EN 1550:1997+A1:2008.
- Appropriate use of the product includes compliance with all instructions in this manual.
- Any utilization that exceeds or differs from the appropriate use is regarded as misuse.

2.2 Constructional changes

Implementation of structural changes

Modifications, changes or reworking, e.g. additional threads, holes, or safety devices, can damage the product or impair its functionality or safety.

- Structural changes should only be made with the written approval of SCHUNK.

2.3 Spare parts

Use of unauthorized spare parts

Using unauthorized spare parts can endanger personnel and damage the product or cause it to malfunction.

- Use only original spare parts or spares authorized by SCHUNK.

2.4 Gripper fingers

Requirements of gripper fingers

Accumulated energy can make the product unsafe and risk the danger of serious injuries and considerable material damage.

- Execute the gripper fingers in such a way that the product reaches either the "open" or "closed" position in a de-energized state.
- Only change gripper fingers if no residual energy can be released.
- Make sure that the product and the top jaws are a sufficient size for the application.

2.5 Ambient conditions and operating conditions

Required ambient conditions and operating conditions

Incorrect ambient and operating conditions can make the product unsafe, leading to the risk of serious injuries, considerable material damage and/or a significant reduction to the product's life span.

- Make sure that the product is used only in the context of its defined application parameters, ▸ 3 [🗋 16].

2.6 Personnel qualification

Inadequate qualifications of the personnel

If the personnel working with the product is not sufficiently qualified, the result may be serious injuries and significant property damage.

- All work may only be performed by qualified personnel.
- Before working with the product, the personnel must have read and understood the complete assembly and operating manual.
- Observe the national safety regulations and rules and general safety instructions.

The following personal qualifications are necessary for the various activities related to the product:

Trained electrician
Due to their technical training, knowledge and experience, trained electricians are able to work on electrical systems, recognize and avoid possible dangers and know the relevant standards and regulations.

Qualified personnel
Due to its technical training, knowledge and experience, qualified personnel is able to perform the delegated tasks, recognize and avoid possible dangers and knows the relevant standards and regulations.

Instructed person
Instructed persons were instructed by the operator about the delegated tasks and possible dangers due to improper behaviour.

Service personnel of the manufacturer

Due to its technical training, knowledge and experience, service personnel of the manufacturer is able to perform the delegated tasks and to recognize and avoid possible dangers.

2.7 Personal protective equipment

Use of personal protective equipment

Personal protective equipment serves to protect staff against danger which may interfere with their health or safety at work.

- When working on and with the product, observe the occupational health and safety regulations and wear the required personal protective equipment.
- Observe the valid safety and accident prevention regulations.
- Wear protective gloves to guard against sharp edges and corners or rough surfaces.
- Wear heat-resistant protective gloves when handling hot surfaces.
- Wear protective gloves and safety goggles when handling hazardous substances.
- Wear close-fitting protective clothing and also wear long hair in a hairnet when dealing with moving components.

2.8 Notes on safe operation

Incorrect handling of the personnel

Incorrect handling and assembly may impair the product's safety and cause serious injuries and considerable material damage.

- Avoid any manner of working that may interfere with the function and operational safety of the product.
- Use the product as intended.
- Observe the safety notes and assembly instructions.
- Do not expose the product to any corrosive media. This does not apply to products that are designed for special environments.
- Eliminate any malfunction immediately.
- Observe the care and maintenance instructions.
- Observe the current safety, accident prevention and environmental protection regulations regarding the product's application field.

2.9 Transport

Handling during transport

Incorrect handling during transport may impair the product's safety and cause serious injuries and considerable material damage.

- When handling heavy weights, use lifting equipment to lift the product and transport it by appropriate means.
- Secure the product against falling during transportation and handling.
- Stand clear of suspended loads.

2.10 Malfunctions

Behavior in case of malfunctions

- Immediately remove the product from operation and report the malfunction to the responsible departments/persons.
- Order appropriately trained personnel to rectify the malfunction.
- Do not recommission the product until the malfunction has been rectified.
- Test the product after a malfunction to establish whether it still functions properly and no increased risks have arisen.

2.11 Disposal

Handling of disposal

The incorrect handling of disposal may impair the product's safety and cause serious injuries as well as considerable material and environmental harm.

- Follow local regulations on dispatching product components for recycling or proper disposal.

2.12 Fundamental dangers

General

- Observe safety distances.
- Never deactivate safety devices.
- Before commissioning the product, take appropriate protective measures to secure the danger zone.
- Disconnect power sources before installation, modification, maintenance, or calibration. Ensure that no residual energy remains in the system.
- If the energy supply is connected, do not move any parts by hand.

- Do not reach into the open mechanism or movement area of the product during operation.

2.12.1 Protection during handling and assembly

Incorrect handling and assembly

Incorrect handling and assembly may impair the product's safety and cause serious injuries and considerable material damage.

- Have all work carried out by appropriately qualified personnel.
- For all work, secure the product against accidental operation.
- Observe the relevant accident prevention rules.
- Use suitable assembly and transport equipment and take precautions to prevent jamming and crushing.

Incorrect lifting of loads

Falling loads may cause serious injuries and even death.

- Stand clear of suspended loads and do not step into their swiveling range.
- Never move loads without supervision.
- Do not leave suspended loads unattended.

2.12.2 Protection during commissioning and operation

Falling or violently ejected components

Falling and violently ejected components can cause serious injuries and even death.

- Take appropriate protective measures to secure the danger zone.
- Never step into the danger zone during operation.

2.12.3 Protection against dangerous movements

Unexpected movements

Residual energy in the system may cause serious injuries while working with the product.

- Switch off the energy supply, ensure that no residual energy remains and secure against inadvertent reactivation.
- Never rely solely on the response of the monitoring function to avert danger. Until the installed monitors become effective, it must be assumed that the drive movement is faulty, with its action being dependent on the control unit and the current operating condition of the drive. Perform maintenance work, modifications, and attachments outside the danger zone defined by the movement range.

- To avoid accidents and/or material damage, human access to the movement range of the machine must be restricted. Limit/prevent accidental access for people in this area due through technical safety measures. The protective cover and protective fence must be rigid enough to withstand the maximum possible movement energy. EMERGENCY STOP switches must be easily and quickly accessible. Before starting up the machine or automated system, check that the EMERGENCY STOP system is working. Prevent operation of the machine if this protective equipment does not function correctly.

2.12.4 Protection against electric shock

Possible electrostatic energy

Components or assembly groups may become electrostatically charged. When the electrostatic charge is touched, the discharge may trigger a shock reaction leading to injuries.

- The operator must ensure that all components and assembly groups are included in the local potential equalisation in accordance with the applicable regulations.
- While paying attention to the actual conditions of the working environment, the potential equalisation must be implemented by a specialist electrician according to the applicable regulations.
- The effectiveness of the potential equalisation must be verified by executing regular safety measurements.

2.13 Notes on particular risks

⚠ DANGER

Risk of fatal injury from suspended loads!

Falling loads can cause serious injuries and even death.

- Stand clear of suspended loads and do not step within their swiveling range.
- Never move loads without supervision.
- Do not leave suspended loads unattended.
- Wear suitable protective equipment.

⚠ WARNING

Risk of injury from objects falling and being ejected!

Falling and ejected objects during operation can lead to serious injury or death.

- Take appropriate protective measures to secure the danger zone.

⚠ WARNING

Risk of injury from sharp edges and corners!

Sharp edges and corners can cause cuts.

- Use suitable protective equipment.

⚠ WARNING

Risk of injury due to unexpected movements!

If the power supply is switched on or residual energy remains in the system, components can move unexpectedly and cause serious injuries.

- Before starting any work on the product: Switch off the power supply and secure against restarting.
- Make sure, that no residual energy remains in the system.

⚠ WARNING

Risk of injury from crushing and impacts!

Serious injury could occur during movement of the base jaw, due to breakage or loosening of the gripper fingers or if the workpiece is lost.

- Wear suitable protective equipment.
- Do not reach into the open mechanism or the movement area of the product.

⚠ WARNING

Risk of injury due to spring forces!

Parts are under spring tension on products which clamp using spring force or which have gripping force maintenance. While disassembling components can move unexpectedly and cause serious injuries.

- Disassemble the product cautiously.
- Make sure that no residual energy remains in the system.

⚠ WARNING

Risk of injury from objects falling during energy supply failure

Products with a mechanical gripping force maintenance can, during energy supply failure, still move independently in the direction specified by the mechanical gripping force maintenance.

- Secure the end positions of the product with SCHUNK SDV-P pressure maintenance valves.

3 Technical data

Tab.:

Size	08	10	16	20	25	40
Stroke per jaw [mm]	2	3	5	6	8	13
Weight [kg]						
without gripping force maintenance	0.03	0.07	0.15	0.24	0.46	1.5
with gripping force maintenance	0.04	0.08	0.16	0.25	0.48	1.6
Recommended workpiece weight [kg]	0.13	0.29	0.6	1.2	1.9	4.2
Max. permissible finger length [mm]	20	25	32	40	50	64
Max. permitted weight per finger [kg]	0.03	0.04	0.06	0.09	0.12	0.3
Ambient temperature [°C]						
Min. ambient temperature [°C]			–10			
Max. ambient temperature [°C]			90			
Min. spring force [N]						
without gripping force maintenance	–	–	–	–	–	–
with gripping force maintenance AS	6	16	20	40	80	250
with gripping force maintenance IS	6	16	20	40	80	250
Closing force [N]						
without gripping force maintenance	26	58	120	240	380	840
with gripping force maintenance AS	32	74	140	280	460	1090
with gripping force maintenance IS	–	–	–	–	–	–
Opening force [N]						
without gripping force maintenance	36	70	138	280	438	928
with gripping force maintenance AS	–	–	–	–	–	–
with gripping force maintenance IS	42	86	158	320	518	1178
IP rating			40			
Pressure medium			Compressed air, compressed air quality according to ISO 8573-1:2010 [7:4:4]			
Min. pressure [bar]						
without gripping force maintenance			2			
with gripping force maintenance			4			
Max. pressure [bar]						
without gripping force maintenance			8			
with gripping force maintenance			6.5			

More technical data is included in the catalog data sheet. Whichever is the latest version.

4 Assembly

4.1 Connections

4.1.1 Mechanical connection

Evenness of the mounting surface

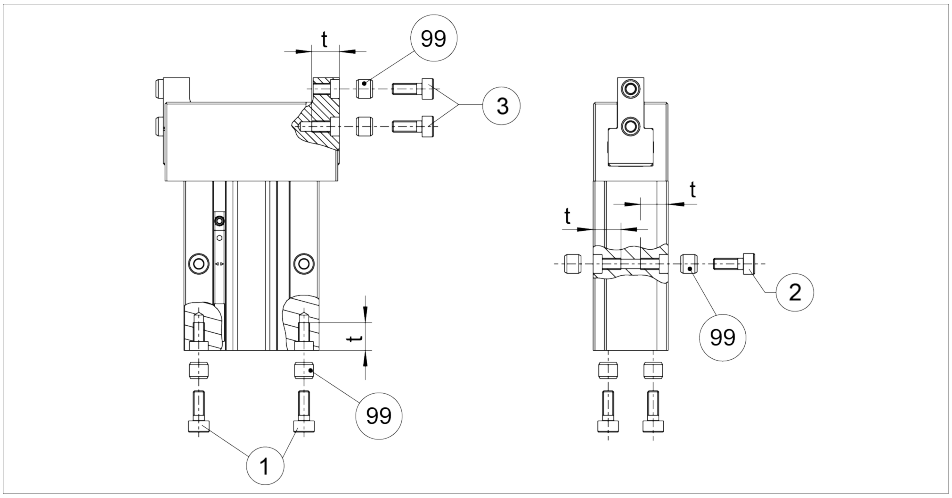
The values apply to the whole mounting surface to which the product is mounted.

Edge length	Permissible unevenness
< 100	< 0.02
> 100	< 0.05

Tab.: Requirements for evenness of the mounting surface (Dimensions in mm)

Mounting

The module can be mounted from the rear or on the side:



Assembly options

Maximal screw-in depth of the fastening screws provided by the customer.

Tab.: Mounting material

Item	Mounting	08	10	16	20	25	40
1	Module rear mounting	M3 / 7.4 deep			M4 / 10 deep	M5 / 13 deep	M8 / 16 deep
2	Module side mounting	M3	M3 / 7.4 deep		M4 / 10 deep	M5 / 11 deep	M8 / 16 deep
3	Top jaws	M3 / 5deep	M3 / 7.4 deep		M4 / 10 deep	M5 / 11 deep	M8 / 16 deep
99	centering sleeve	Ø5h6 / 4.35 deep			Ø6h6 / 5.35 deep	Ø8h6 / 5.35 deep	Ø12h6 / 6.65 deep

NOTE

- When mounting from rear or on the side, mount the module using the centering sleeves (99) provided.
- Mount the module using the mounting bores.
- Mount the top jaws using the mounting bores provided.

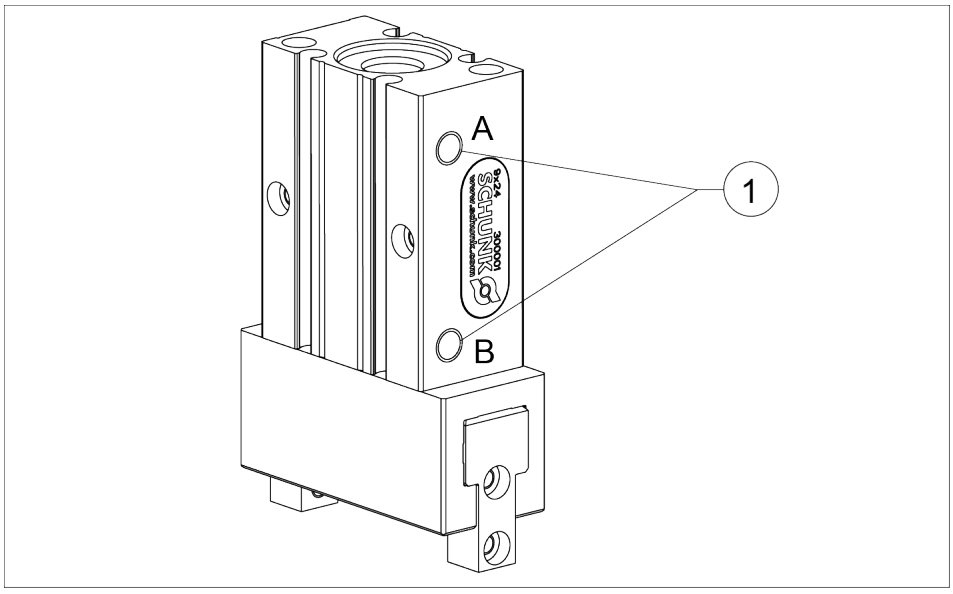
4.1.2 Pneumatic connection

CAUTION

Damage to the gripper is possible!

If the maximum permissible finger weight or the permissible mass moment of inertia of the fingers is exceeded, the gripper can be damaged.

- A jaw movement always has to be without jerks and bounce.
- You must therefore implement sufficient reduction and/or damping.
- Observe the information in the catalog data sheet.



Air connections

Tab.: Thread diameter of the air connections

Item	Connection	08	10	16	20	25	40
1	Thread diameter of the air connections (A = open, B = close)	2 x M3			2 x M5		2 x G1/8"

4.2 Mounting the sensor

NOTE

Observe the assembly and operating manual of the sensor for mounting and connecting.

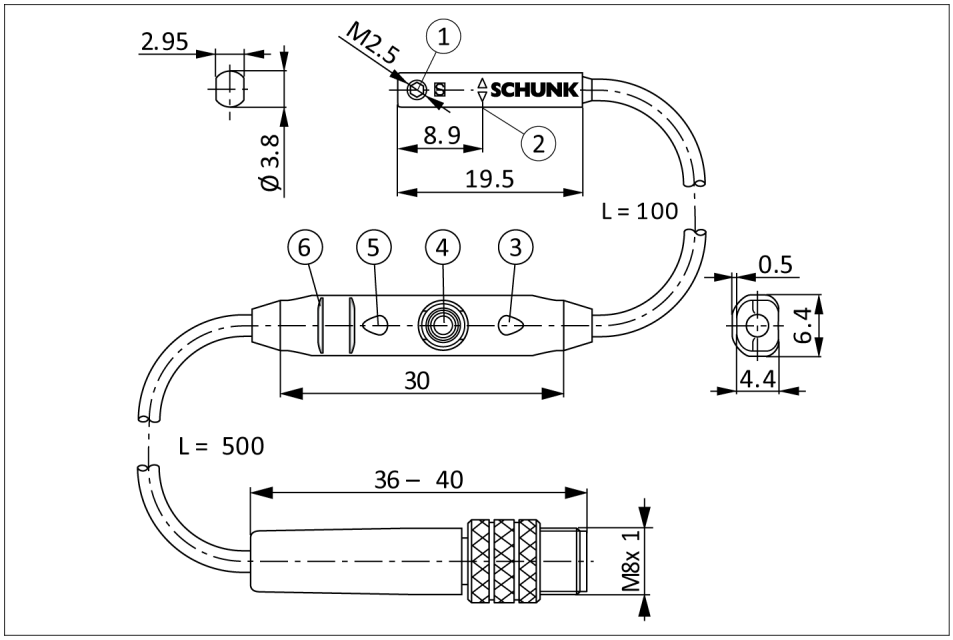
The product is equipped for the use of sensors.

- For the exact type designations of suitable sensors, please see the catalog data sheet.
- For technical data for the suitable sensors, see Assembly and Operating Manual and catalog data sheet.
  - The Assembly and Operating Manual and catalog data sheet are included in the scope of delivery for the sensors and are available at schunk.com.
- Information on handling sensors is available at schunk.com or from SCHUNK contact persons.

4.2.1 Programmable magnetic switch (MMS-P)

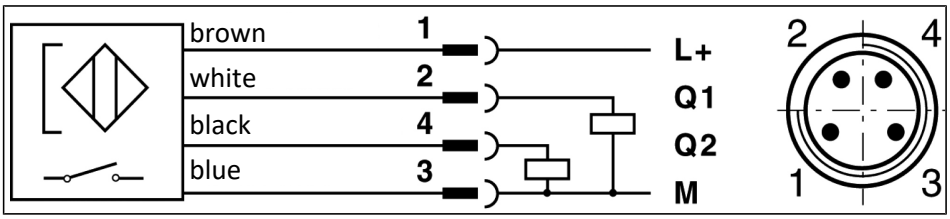
NOTE

The MMS-P can be used only for sizes LPG 08 – LPG 40



MMS-P 22 magnetic switch

1	Fastening screw	4	Teach button
2	Center of sensor element	5	LED indicator
3	LED indicator	6	Rib for cable tie



Connection diagram for PNP-4 conductor (MMS-P 22)

Types that can be ordered ☞ catalog:

- MMS-P 22-S-M8-PNP
- MMSK-P 22-S-PNP
- V2-M8-4-2XM8-3

The MMSK-P 22-S-PNP features a cable with open wire strands so that it can be connected with terminal contacts.
The V2-M8-4-2xM8-3 distributor serves to convert the 4-pin connector of the MMS-P 22-S-M8-PNP sensor to two standard M8 connectors with 3 pins each.

Installation of the sensor

CAUTION

Risk of damage to the sensor during assembly.

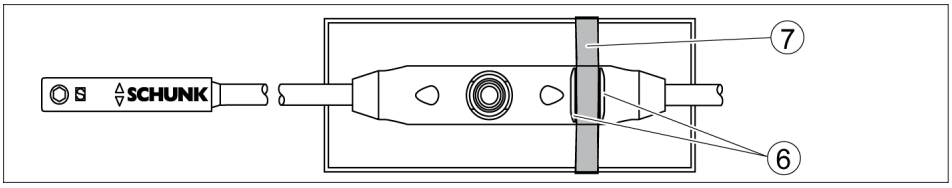
- Observe a maximum tightening torque of 10 Ncm for the set-screws.

NOTE

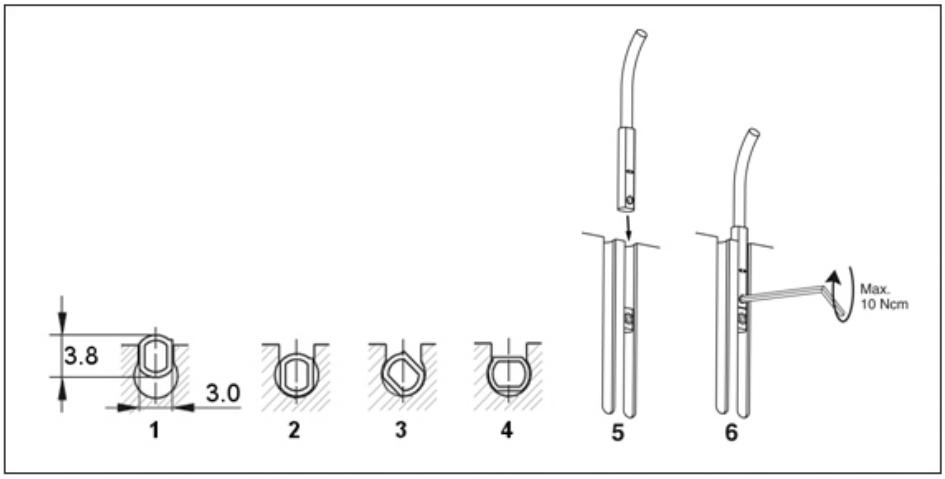
Ferromagnetic components change the sensor's switching positions. Example: adapter plate made of construction steel.

For ferromagnetic adapter plates:

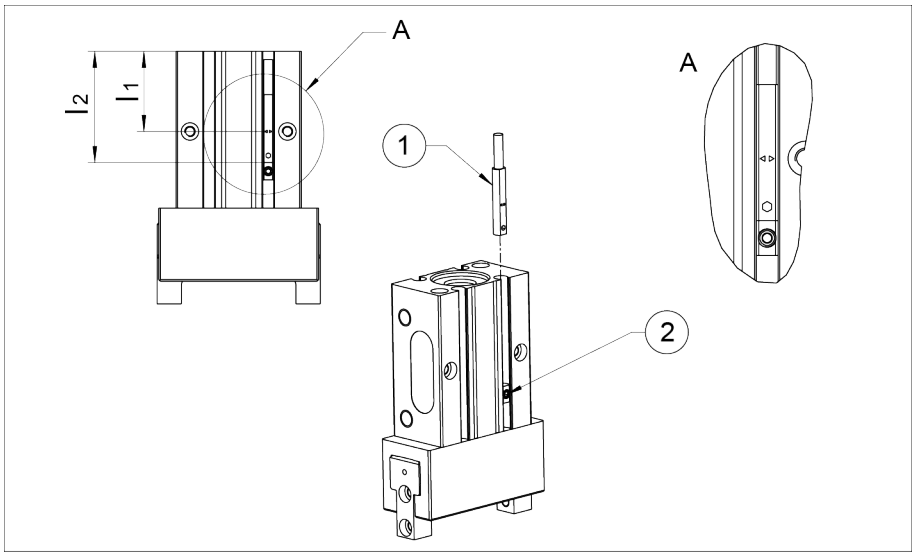
- First mount product to adapter plate
- Then adjust position of the sensors



1. To relieve the cable, the electronics have to be fixed in place using cable ties (7).
   There are ribs (6) in place on the electronics for mounting purposes.



2. Turn in the sensor (1 – 4).
   OR
   Push the sensor axially into the slot until it contacts the stop (5).
3. Fix the sensor with an Allen wrench (6).



If there is no terminal stop, then slide the magnetic switch according to dimension l2 (bottom edge of gripper up to front side of sensor) or according to dimension l1 (bottom edge of gripper up to double arrow on sensor) and then clamp.

Type	Maß l_1 [mm]	Maß l_2 [mm]	Type	Maß l_1 [mm]	Maß l_2 [mm]
LGP 08	15.2	24.1	LGP 20-AS	20.6	29.5
LGP 08-AS	10.1	19.0	LGP 20-IS	25.6	34.5
LGP 08-IS	18.4	25.8	LGP 25	33.6	42.5
LGP 10	18.4	27.3	LGP 25-AS	25.6	34.5
LGP 10-AS	15.9	24.8	LGP 25-IS	33.6	42.5
LGP 10-IS	18.4	27.3	LGP 40	45.3	54.2
LGP 16	23.0	31.9	LGP 40-AS	29.3	38.2

Type	Maß l_1 [mm]	Maß l_2 [mm]	Type	Maß l_1 [mm]	Maß l_2 [mm]
LGP 16-AS	19.0	27.9	LGP 40-IS	45.3	54.2
LGP 16-IS	23.0	31.9			
LGP 20	25.6	34.5			

Setting up the switching points

1. Keep the Teach-Button (4) pressed for 2 seconds.
   ⇨ After 2 seconds LED 1 (3) is flashing.
2. Move the gripper into position 1 (e.g. "open").
3. Press the Teach-Button (4) briefly.
   ⇨ LED 1 (3) lights up and LED 2 (5) is flashing.
4. Move the gripper into position 2. (e.g. „-2mm“).
   ⇨ LED 1 (3) should turn out as soon as the switching point 1 is left.
5. Press the Teach-Button (4) briefly.
   ⇨ LED 2 (5) lights up.

⇨ The switching points are set.

Adjusting the hysteresis

The hysteresis to both switching points will be adjusted automatically corresponding to the characteristics of the magnetic field.
The user can set the switching and trigging points of each position a little bit closer than for the automatic mode. The trigging point is closer to the switching point. At the same time the susceptibility to trouble and damage increases. In the mode of the lowest hysteresis, an error signal (such as jitter or untimely switch off) can be avoided, if the sensor is protected against all types of disturbances (i.e. by shielding). Frequent types of disturbances are change in temperature and electro-magnetic influences.
Within the closest fine-teach mode, SCHUNK cannot guarantee EMC-compatibility any more.
The hysteresis adjustment is used for the manual adjustment of the switching points (if necessary).
In case that the hysteresis automatically determined by the sensor should be too high or too low after “the adjustment of the switching points”, you may correct the value as follows.
The sensor avoids a too small hysteresis during hysteresis adjustment.

Sensors MMS 22, MMS 22-PI1, MMS 22-PI2 and MMS-P 22

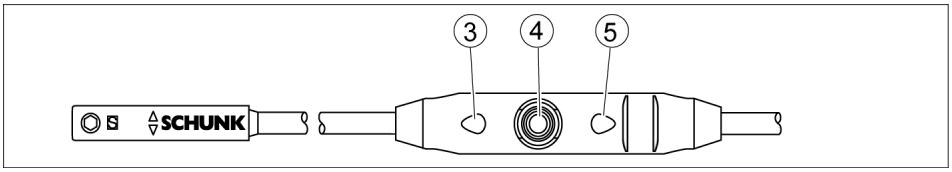
The smallest detectable difference in stroke is defined in the following table:

For products with X mm nominal stroke per jaw	Min. query range per jaw/ min. queried stroke difference per jaw
X ≤ 5 mm	30 % of the nominal stroke per jaw
X > 5 mm to X ≤ 10 mm	20 % of the nominal stroke per jaw
X > 10 mm	10 % of the nominal stroke per jaw

Tab.: The smallest detectable difference in stroke based on the nominal stroke

Example: Product with 7 mm nominal stroke per jaw

7 mm * 20% = 1.4 mm



1. Press the Teach-Button (4) for 5 seconds.
   ⇨ LED 1 (3) will flash up after 2 seconds
   ⇨ LED 1 will stop after 5 seconds.
2. Release the Teach-Button.
3. Put the gripper to position „switch-off point of switching point 1".
4. Press the Teach-Button (4) briefly. LED 1(3) will light up twice.
5. Put the gripper to position „switch-off point of switching point 2".
6. Press the Teach-Button (4) briefly.
   ⇨ LED 2 (5) will light up twice.

⇨ The Mounting of the sensor MMS-P is completed.

5 Troubleshooting

5.1 Product does not move

Possible cause	Corrective action
Base jaws jam in housing, e.g. mounting surface is not sufficiently even.	Check the evenness of the mounting surface. ▸ 4.1.1 [🗋 17]
Pressure drops below minimum.	Check air supply. ▸ 3 [🗋 16]
Compressed air lines switched.	Check compressed air lines. ▸ 4.1.2 [🗋 18]
Proximity switch defective or set incorrect.	Readjust or change sensor.
Unused air connections open.	Close unused air connections.
Flow control valve closed.	Open the flow control valve.
Component part defective.	Replace component or send it to SCHUNK for repair.

5.2 Product is not executing the complete stroke

Possible cause	Corrective action
Dirt deposits between cover and piston.	Clean and if necessary re-lubricate.
Dirt deposits between basic jaws and guidance.	Disassemble and clean the product.
Pressure drops below minimum.	Check air supply. ▸ 4.1.2 [🗋 18]
Mounting surface is not sufficiently flat.	Check the evenness of the mounting surface. ▸ 4.1.1 [🗋 17]
Component part defective.	Replace component or send it to SCHUNK for repair.

5.3 Product opens or closes abruptly

Possible cause	Corrective action
Too little grease in the mechanical guiding areas.	Clean and lubricate product. ▸ 6 [🗋 26]
Compressed air lines blocked.	Check compressed air lines of damage.
Mounting surface is not sufficiently flat.	Check the evenness of the mounting surface.
One-way flow control valve is missing or adjustet incorrectly.	Install and adjust one-way flow control valve.
Loading too large.	Check permissible weight and length of the gripper fingers.

5.4 Magnetic switch does not work

Possible cause	Corrective action
Use steel screws to mount the product.	Use VA-Screws.
Fastening plates, fixing brackets etc. made of magnetisable materials.	If possible, use aluminium or plastic.

5.5 The gripping force drops?

Possible cause	Corrective action
Compressed air can escape.	Check seals, if necessary, disassemble the product and replace seals.
Pressure drops below minimum.	Check air supply., ▶ 4.1.2 [🗋 18]

5.6 Product does not achieve the opening and closing times

Possible cause	Corrective action
Compressed air lines are not installed optimally.	If present: Open the flow control couplings on the product to the maximum that the movement of the jaws occurs without bouncing and hitting.
	Check compressed air lines.
	Inner diameters of compressed air lines are of sufficient size in relation to compressed air consumption.
	Keep compressed air lines between the product and directional control valve as short as possible.
	Flow rate of valve is sufficiently large relative to the compressed air consumption.
	IMPORTANT! The throttle check valve must not be removed, even if the product has not reached the opening and closing times.
	If you still cannot achieve the open and close times in the latest catalog, we recommend the use of quick-air-vent-valves directly at the product.
Loading too large.	Check permissible weight and length of the gripper fingers.

6 Maintenance and Care

The product is not intended for maintenance.

Disassembly for maintenance or repair purposes is not possible.

A damaged product has to be replaced completely.

7 Translation of the original declaration of incorporation

in terms of the Directive 2006/42/EG, Annex II, Part 1 Section B.

Manufacturer/ Distributor	SCHUNK SE & Co. KG Spanntechnik | Greiftechnik | Automatisierungstechnik Bahnhofstr. 106 – 134 D–74348 Lauffen/Neckar

We hereby declare that the partly completed machine described below

Product designation:	2–Finger–parallel gripper / LGP /pneumatic
ID number	0312900 ... 0312917

meets the following basic occupational health and safety of the Machinery Directive 2006/42/EC:

No. 1.1.1, No. 1.1.2, No. 1.1.3, No. 1.1.5, No. 1.3.2, No. 1.5.3, No. 1.5.4, No. 1.5.6, No. 1.5.8, No. 1.5.10, No. 1.5.11, No. 1.5.13

The partly completed machinery may not be put into operation until it has been confirmed that the machine into which the partly completed machinery is to be installed complies with the provisions of the Machinery Directive (2006/42/EC). The declaration shall be rendered invalid if modifications are made to the product.

Applied harmonized standards, especially:

EN ISO 12100:2010	Safety of machinery – General principles for design – Risk assessment and risk reduction

The special technical documentation according to Annex VII, Part B, belonging to the partly completed machine, has been created.

Person authorized to compile the technical documentation:
Stefanie Walter, Address: see manufacturer's address

Signature: see original declaration

Lauffen/Neckar, October 2024

Dr.–Ing. Manuel Baumeister,
Head of Systems Engineering,
Technology & Innovation

8 UKCA declaration of incorporation

in accordance with the Supply of Machinery (Safety) Regulations 2008.

Manufacturer/ Distributor	SCHUNK Intec Limited Clamping and gripping technology 3 Drakes Mews, Crownhill MK8 0ER Milton Keynes

We hereby declare that on the date of the declaration the following partly completed machine complied with all basic safety and health regulations found in the
"Supply of Machinery (Safety) Regulations 2008".
The declaration shall be rendered invalid if modifications are made to the product.

Product designation:	2-Finger-parallel gripper / LGP / pneumatic
ID number	0312900 ... 0312917

The partly completed machine may not be put into operation until it has been confirmed that the machine into which the partly completed machine is to be installed complies with the provisions of the "Supply of Machinery (Safety) Regulations 2008".

Applied harmonized standards, especially:

EN ISO 12100:2010	Safety of machinery - General principles for design - Risk assessment and risk reduction

The special technical documentation according to Annex VII, Part B, belonging to the partly completed machine, has been created.

Person authorized to compile the technical documentation:
Marcel Machado, address: refer to manufacturer's address

Lauffen/Neckar, October 2024

Dr.-Ing. Manuel Baumeister,
Head of Systems Engineering,
Technology & Innovation

9 Information on the RoHS Directive, REACH Regulation and Substances of Very High Concern (SVHC)

RoHS Directive

SCHUNK products are classified as "large-scale stationary installations" or as "large-scale stationary industrial tools" within the meaning of Directive 2011/65/EU and its extension 2015/863/EU "on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)", or fulfill their intended function only as part of one. Therefore products from SCHUNK do not fall within the scope of the directive at this time.

REACH Regulation

Products from SCHUNK fully comply with the regulations of Regulation (EC) No. 1907/2006 "concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)" and its amendment 2022/477. SCHUNK attaches great importance to completely avoiding chemicals of concern to humans and the environment wherever possible.

Only in rare exceptional cases do SCHUNK products contain SVHC substances on the candidate list with a mass content above 0.1%. In accordance with Article. 33 (1) of Regulation (EC) No. 1907/2006, SCHUNK complies with its duty to "communicate information on substances in articles" and lists the components concerned and the substances used in an overview that can be viewed at **schunk.com\SVHC**.

Signature: see original declaration

Lauffen/Neckar, October 2024

Dr.-Ing. Manuel Baumeister,
Head of Systems Engineering,
Technology & Innovation

SCHUNK SE & Co. KG
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