SCHUNK

Assembly and operating manual
COS VB
Optional module

Translation of original operating manual

Hand in hand for tomorrow

Imprint

Technical changes:
We reserve the right to make technical improvements.

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Dear Customer

Dear Customer,

Thank you for putting your trust in 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. We look forward to your challenging questions. We will find a solution!

Best regards,

Your SCHUNK team

Customer Management
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Fax +49-7133-103-2189
cmg@de.schunk.com

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

Table of Contents

1 General

1.1 About this Manual

This manual contains important information for the safe, correct use of the product.

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

Personnel must have read and understood this manual before beginning any work. The observance of all safety notes in this manual is the precondition for all safe working.

Besides this manual, other documents which apply are those listed under ▸ 1.1.4 [🗋 6].

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

1.1.1 Illustration of safety notes

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

⚠ DANGER

Danger to individuals!

Ignoring a safety note such as this will certainly lead to irreversible injury and even death.

⚠ WARNING

Danger to individuals!

Ignoring a safety note such as this can lead to irreversible injury and even death.

⚠ CAUTION

Danger to individuals!

Non-observance can cause minor injuries.

NOTICE

Material damage!

Information about avoiding material damage.

1.1.2 Definition of Terms

The term "product" replaces the product name on the title page in this manual.

1.1.3 Symbol definition

The following symbols are used in this manual:

■ Prerequisite for an action

1. Action 1
2. Action 2
   ⇨ Intermediate results

⇨ Final results

▸ 1.1.3 [🗋 6]: chapter number and [page number] in hyperlinks

1.1.4 Applicable documents

- General terms and conditions *
- Assembly and operating instructions for the SCHUNK tool changer *
- Catalog data sheet for the purchased product *

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

1.1.5 Sizes

This manual applies to the following sizes:

- COS VB7-K
- COS VB2-A
- COS VB3-A

1.2 Warranty

If the product is used as intended, the warranty is valid for 24 months from the date of delivery from the production facility under the following conditions:

- Observance of the specified maintenance and lubrication intervals
- Observance of the ambient conditions and operating conditions

Parts touching the workpiece and wearing parts are not part of the warranty.

1.3 Scope of delivery

The scope of delivery includes:

- Optional module COS VB in the size ordered
- Safety information (product-specific instructions available online)
- Accessory pack
  - Ident number: 1593912
  - Contents: Fastening screws and cylindrical pins

1.4 Accessories

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

- Straight and angled cable connectors
- Cable extensions

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

2 Basic safety notes

2.1 Intended use

Size "VB" option modules are used to transmit electrical signals/ voltages from a machine/system to a handling device/tool.

- 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 may only be used within the scope of its technical data, ▶ 3 [🗋 16].
- 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.
- Appropriate use of the product includes compliance with all instructions in this manual.

Misuse

- Never disconnect or connect the module while a medium is being transferred.

2.2 Structural 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 and spares authorized by SCHUNK.

2.4 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 only used within its defined application parameters, ▸ 3 [🗋 16].

2.5 Personnel qualification

Inadequate qualification of personnel

Work on the product by inadequately qualified personnel can lead to serious injuries and considerable material damage.

- Order all work to be performed only by appropriately qualified personnel.
- Personnel must have read and understood the complete manual before beginning any work on the product.
- Observe national accident prevention regulations and the general safety notes.

The following personnel qualifications are required for the various types of work on 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 have been instructed by the user regarding the tasks entrusted to them and the potential dangers of inappropriate behavior.
Manufacturer's service personnel	The manufacturer's service personnel have the specialized training, knowledge, and experience to perform the work entrusted to them and to recognize and avoid potential dangers.

2.6 Personal protective equipment

Use of personal protective equipment

Personal protective equipment serves to protect staff in the event of a danger that 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.

2.7 Notes on safe operation

Incorrect manner of working by personnel

An incorrect manner of working can make the product unsafe and risk the danger of serious injuries and considerable material damages.

- 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. Products for special ambient conditions are excluded.
- Rectify malfunctions as soon as they occur.
- Observe the care and maintenance instructions.
- Observe the current safety, accident prevention, and environmental protection regulations for the application field of the product.

2.8 Transportation

Behavior during transport

Incorrect behavior during transport can result in hazards from the product that can lead to serious injuries and considerable material damage.

- Secure the product against falling during transportation and handling.
- Do not stand under suspended loads.

2.9 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.

2.10 Disposal

Handling of disposal

Incorrect handling during disposal can make the product unsafe and risks serious injuries and considerable material and environmental harm.

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

2.11 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.

2.11.1 Protection during handling and assembly

Incorrect handling and assembly

Incorrect handling and assembly can make the product unsafe and pose a risk of serious injuries and considerable material damage.

- Order all work to be performed only by appropriately qualified personnel.
- For all work, secure the product against accidental operation.
- Observe the relevant accident prevention regulations.
- Use suitable assembly and transport equipment and take precautions to prevent jamming and crushing.

Incorrect lifting of 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.

2.11.2 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.

2.11.3 Protection against dangerous movements

Unexpected movements

If the system still retains residual energy, serious injuries can be caused while working on 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 through technical safety measures. The protection 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 commissioning 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.

2.11.4 Protection against electric shock

Working on electrical equipment

Touching live parts can lead to death.

- Work on electrical equipment may only be carried out by qualified electricians in accordance with electrotechnical regulations.
- Lay electrical cables properly, e.g. in a cable duct or cable bridge. Observe standards.
- Before connecting or disconnecting electrical cables: Switch off the power supply and secure it against being switched on again, check that the cables are de-energized.
- Before switching on / commissioning the product, check that the protective earth conductor is correctly attached to all electrical components in accordance with the wiring diagram.
- Check whether covers and protective devices have been fitted to prevent contact with live components.
- Do not touch the connection points of the product when the power supply is switched on.

Possible electrostatic energy

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

- The operator must ensure that all components and assembly groups are included in the local equipotential bonding in line with the applicable regulations.
- The equipotential bonding must be implemented by a specialist electrician in line with the applicable regulations while paying particular attention to the actual conditions in the working environment.
- The effectiveness of the equipotential bonding must be verified by regular safety measurements.

2.12 Notes on special dangers

⚠ WARNING

Risk of injury from electric shock due to contact with live parts!

- Before starting any work: Disconnect the power supply from the mains and secure against accidental switch-on.
- Work may only be performed by appropriately qualified personnel.

⚠ WARNING

Risk of burns from hot surfaces!

High operating temperatures can cause components to heat up considerably. Skin contact with hot surfaces causes severe burns to the skin.

- Always wear heat-resistant protective gloves when working near hot surfaces.
- Before carrying out any work, ensure that all surfaces have cooled down to ambient temperature.

⚠ CAUTION

Risk of injury from falling and ejected objects!

During operation, falling and ejected objects can cause injuries.

- Take suitable measures to secure the danger zone.

⚠ CAUTION

Risk of injury from sharp edges and pointed corners!

Sharp edges and pointed corners can cause cuts.

- Wear suitable protective equipment.

NOTICE

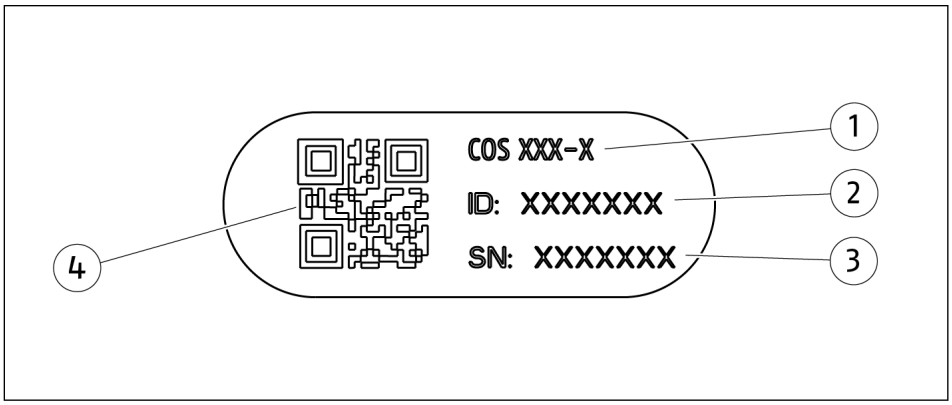
Material damage due to short circuit!

Coupling/uncoupling the tool changer when the power is switched on leads to a short circuit in the option module. The product may be damaged and destroyed.

- Only connect/disconnect the tool changer head and tool changer adapter when the power is switched off.

3 Technical data

3.1 Type plate



1	Product designation
2	Identification number
3	Serial number
4	Data matrix code

Scan the code or enter the serial number on the web and receive further product information: CAD data, catalog data sheets, spare parts packages, software updates and much more.

Further information at **schunk.com/serialization**

A separate app may be required for scanning with a cell phone.

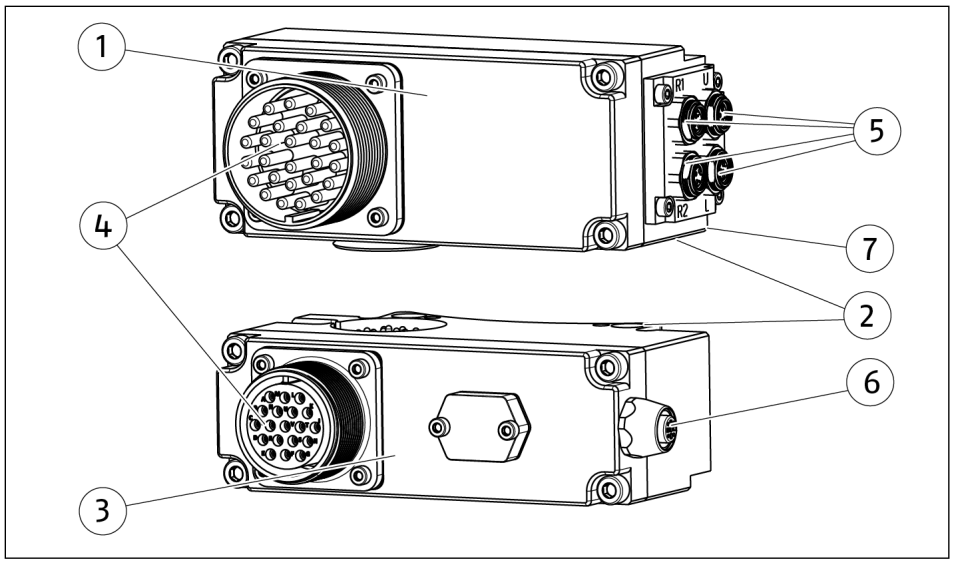
3.2 Ambient conditions and operating conditions

Designation	Value
Ambient temperature [°C] min. max.	 +5 +60
Protection class IP in coupled state	65

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

4 Design and description

4.1 Structure



Electric optional module COS VB

1	COS VB-K: Master side, suitable for the master
2	Attachment to master and tool changer tool
3	COS VB-A: Adapter side, suitable for the adapter
4	Connection for cable connector
5	Connection of locking, unlocking, RTL (ready to lock) sensors
6	RTU (Ready to unlock) sensor connection
7	3-pin pin block for controlling the valve module COS JU2-K or COS JU3-K

4.2 Description

Optional module for transmission of electrical signals.

With the electrical interface from COS VB7-K, a magnetic valve is controlled which is integrated in COS JU2-K or COS JU3-K.

Some sizes can be equipped with a connector for connecting sensors or tool coding.

The tool coding is integrated on the adapter side in the optional module. The set code can be used to program which quick-change adapter, and therefore which tool, is connected.

A maximum of 16 different tools can be coded.

5 Installation and settings

⚠ WARNING

Risk of injury from electric shock due to contact with live parts!

- Before starting any work: Disconnect the power supply from the mains and secure against accidental switch-on.
- Work may only be performed by appropriately qualified personnel.

NOTICE

Material damage to pin block possible!

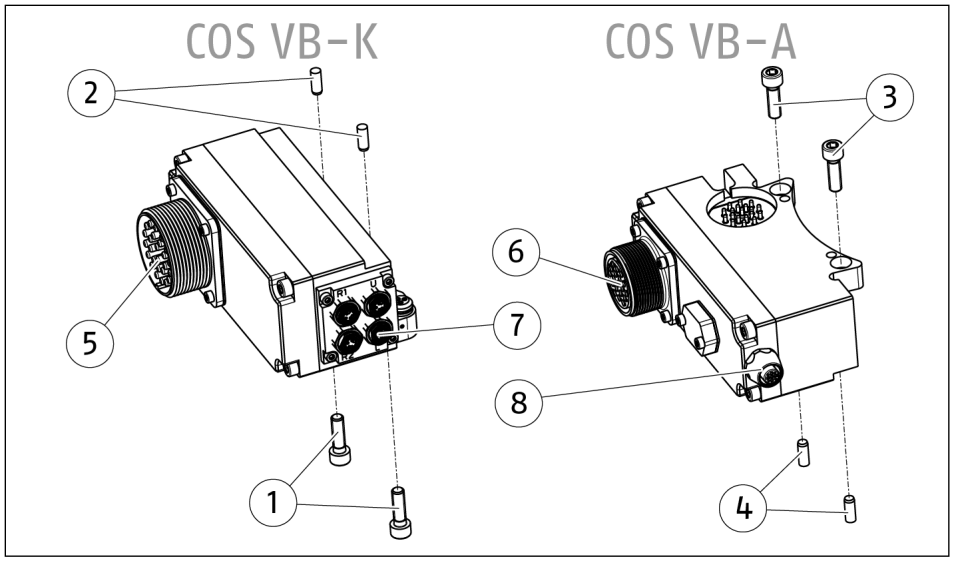
To avoid malfunctions and short circuits, the pin blocks of the electrical option module must be precisely aligned and connected to the exchangeable head and exchangeable adapter.

- Carefully monitor the commissioning of new option modules.
- Only decouple the interchangeable head and interchangeable adapter when they are de-energized.

5.1 Mount the optional module

- The power supply is switched off.
- The exchangeable head and exchangeable adapter are decoupled.

1. Check the screw-on surfaces of the option modules for a flush fit. Use adapter plate if necessary.
2. Optional module COS VB-Mount K to the master with two screws (1) and two cylindrical pins (2).
   ⇨ Tightening torque [Nm]: 18
3. Optional module COS VB-Mount A to the tool with two screws (3) and two cylindrical pins (4).
   ⇨ Tightening torque [Nm]: 18
4. Ensure that the connections (7) are clean and connect the sensors (locking (L), unlocking (U), RTL (R1) and RTL (R2).
5. Connect the cable to the connector (5) and socket (6).
   NOTICE! The 0 and 24 VDC supply lines must be connected to specific pins on the customer's connector! For pin assignment, see catalog data sheet
6. Connect the cable to the connector (6).



Mount the optional module

Further information can be found in the catalog data sheets for the option modules, ▸ 1.1.4 [🗋 6].

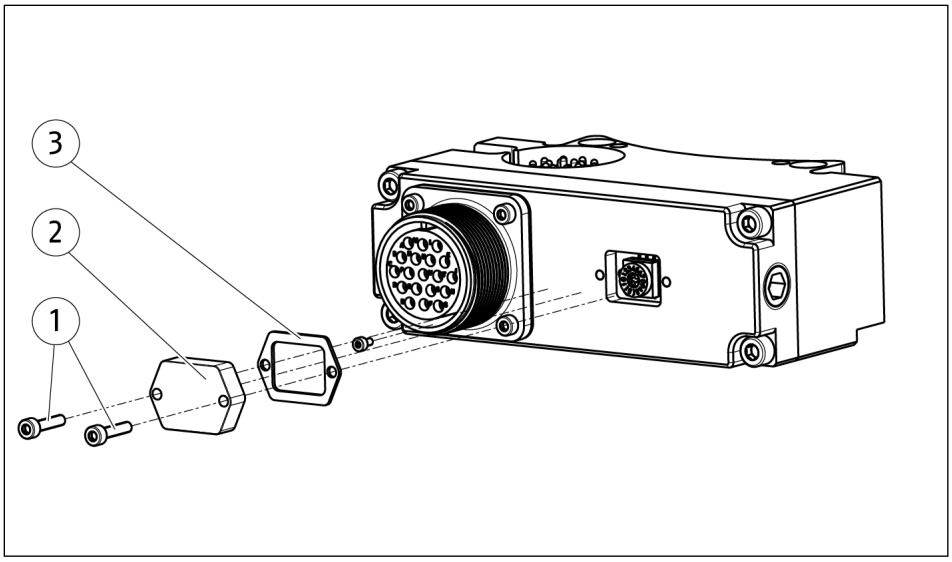
5.2 Set tool coding

NOTE

Some sizes can be equipped with tool coding. The control unit uses this coding to recognize which quick-change adapter, and therefore which tool, is in use.

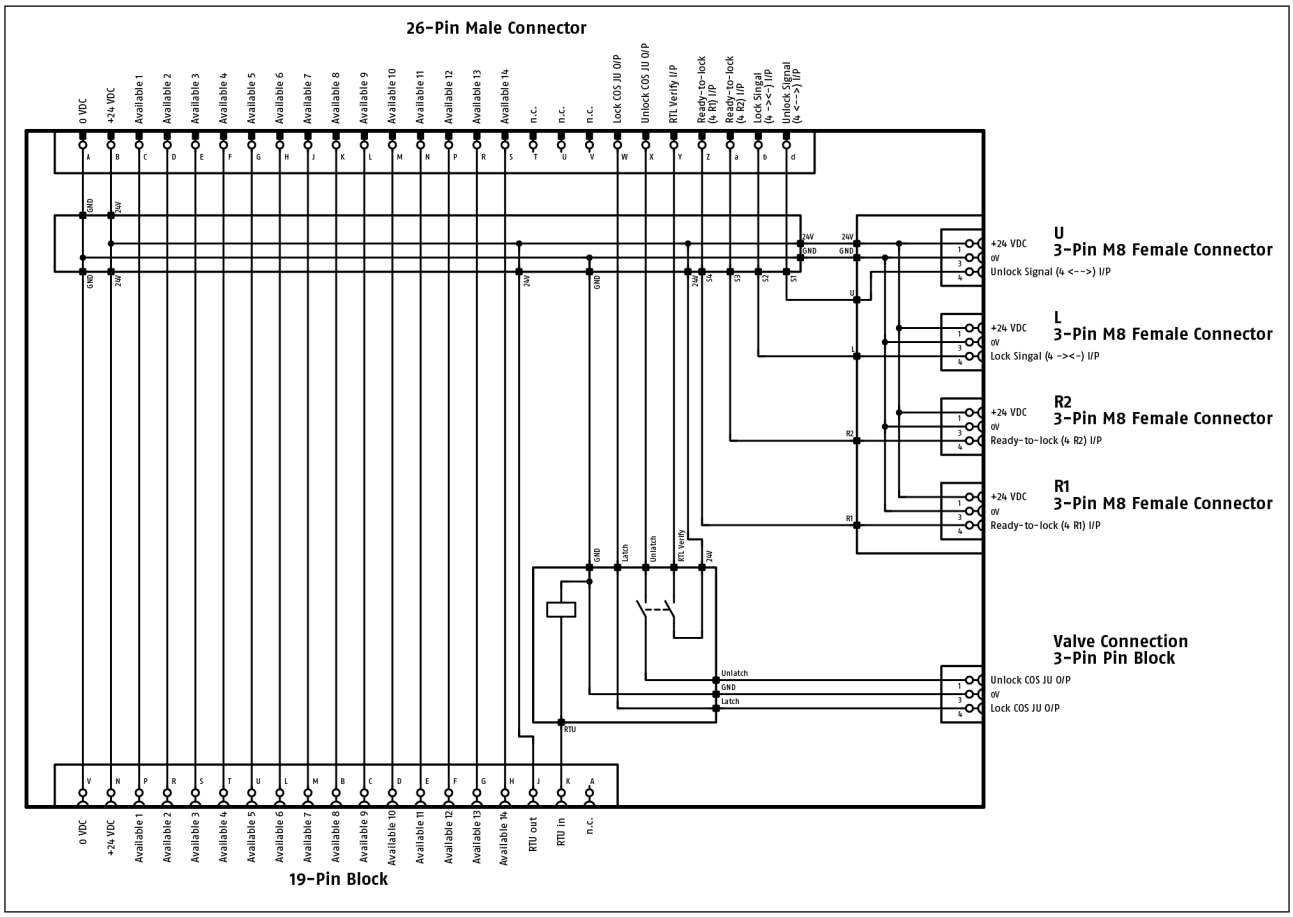
- The power supply is switched off.

1. Loosen the screws (1) on COS VB-A.
2. Remove the inspection window (2) and seal (3).
3. Set the rotary encoder switch to the desired number using a screwdriver.
4. Insert the seal (3) and secure the inspection window (2) with screws (1).
   ⇨ Tightening torque [Nm]: 0.5



Setting tool coding COS VB-A

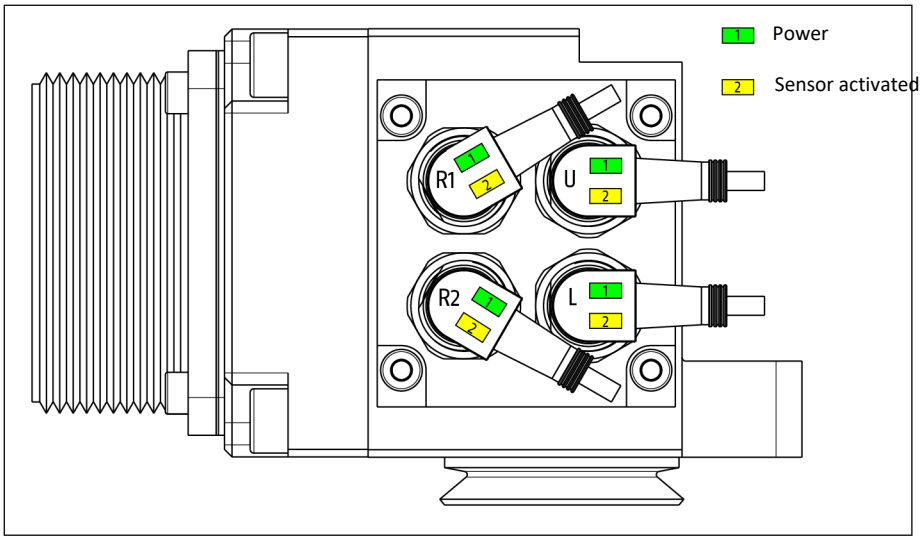
5.3 Wiring diagram



Circuit diagram COS VB7-K

5.4 LED display of the sensors

The sensors are each equipped with two LEDs. The green LED indicates that the sensor is supplied with power and the yellow LED indicates that the switchover has taken place.



Sensors with LEDs for locking (L), unlocking (U) and RTL (R1, R2)

Tool changer position	LED display of the sensors			
	RTL (R1)	RTL (R2)	Unlock-ing (U)	Locking (L)
Unlocked (master unoccupied, no tool attached)	1 ON 2 OFF	1 ON 2 OFF	1 ON 2 ON	1 ON 2 OFF
RTL (Ready to Lock) (master and tool parallel and at a distance of 1.22 mm or less from each other)	1 ON 2 ON	1 ON 2 ON	1 ON 2 ON	1 ON 2 OFF
Locked (master and tool completely in locked position)	1 ON 2 ON	1 ON 2 ON	1 ON 2 OFF	1 ON 2 ON
Tool missing (master locked, without tool attached)	1 ON 2 OFF	1 ON 2 OFF	1 ON 2 OFF	1 ON 2 OFF

Tab.: LED behavior of the sensors for common positions of the tool changer

5.5 Recommended operating sequence

The following procedure serves as a general guide for programming a robot or PLC using a tool changer and a control/signal module. This procedure is recommended for "automatic" modes that are used during normal application processes.

1. Start

The robot and master are located outside the storage rack or storage location.

Tool changer is decoupled. The locking mechanism of the tool changer can be fully retracted (unlocked state) or fully extended (missing change adapter). -> Inputs "Locked" and "Unlocked" are incorrect). The tool is located on its own in the storage rack.

- a. RTL1 and RTL2 inputs are deactivated.
- b. Input RTL Verify is deactivated.
- c. The "Unlocked" input is activated, indicating that the locking mechanism of the tool changer is fully retracted.
- d. Tool and all downstream devices are offline. Communication is not possible.

NOTE

If the tool changer is locked without a tool, it must be unlocked using the manual override button on the valve.

NOTE

To ensure maximum safety, SCHUNK recommends editing the robot program so that it checks whether RTL Verify is deactivated immediately before picking up the tool. If RTL Verify is activated, this may indicate that the RTU relay is not functioning properly and the COS VB7-K module should be replaced.

2. Robot and master move parallel to the change adapter and are at a distance of 1.5 mm from the tool.

(The module contact pins touch and the RTL sensors have detected the targets on the tool).

- a. Input RTL Verify is deactivated.
- b. Inputs RTL1 and RTL2 switch are activated and indicate that the tool can be coupled.
- c. Power supply connections are available on the tool.
- c. Establish communication with downstream devices. (If available, the tool ID is available within 50 ms.)

3. Couple tool changer.

- a. The "Unlock" output must be deactivated.
- b. The "Lock" output must be active.
- c. Input "Unlocked" is deactivated a short time later, indicating piston movement. The "Locked" input is then activated and remains active. The pairing process is complete.

4. The robot moves away from the storage rack with the tool changer coupled.

NOTE

To ensure maximum safety, SCHUNK recommends editing the robot program to check whether RTL Verify is deactivated if the tool is located immediately downstream of the tool pick-up above the storage rack. If RTL Verify is activated, this may indicate that the RTU relay or the RTU switch is not working properly.

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5. Normal operation

- The following inputs are active:
  - L - Locked
  - RTL1
  - RTL2
- The following inputs are deactivated:
  - U - Unlocked
  - RTL Verify
- The following outputs are active:
  - Locked
- The following outputs are deactivated:
  - Unlocked

6. The robot moves into the storage rack with a coupled tool changer

7. Decouple the tool changer

NOTE

Ensure that the tool is securely anchored in the storage rack before uncoupling the tool changer. In order for the tool changer to be unlocked, the RTU switch must be triggered to activate the RTU relay.

- a. RTL Verify input is activated.
- b. Locked output must be deactivated.

- c. Unlocked output must be activated.
- d. The locked input switches off a short time later and then the unlocked input switches on and remains on, indicating that the decoupling process is complete.

8. Robot and master move upwards and away from the tool at a distance of more than 3 mm

(The module contact pins no longer touch each other)

- a. Input RTL Verify is deactivated.
- b. Inputs RTL1 and RTL2 are deactivated.
- c. Power supply connections on the tool are no longer available.
- c. Communication with downstream devices is interrupted. (If available, the tool ID is no longer available).

9. Robot and master are in free space

- The following inputs are active:
  - Unlocked
- The following inputs are deactivated:
  - Locked
  - RTL1
  - RTL2
  - RTL Verify
  - If available, tool ID
- The following outputs are active:
  - Unlocked
- The following outputs are deactivated:
  - Locked

5.6 Ready to Unlock

Safety function

The COS VB-modules are equipped with an RTU (Ready to Unlock) safety function that prevents accidental unlocking of the master and tool if the tool is not located in the storage rack.

In addition to the standard sensor inputs for locking, unlocking and RTL (Ready to Lock), the magnetic valve circuit is physically interrupted via the RTU input for unlocking the master and tool.

For example, a magnetic switch can be connected to the RTU connection. The master and tool can only be unlocked when the tool is in the storage rack. If an unlocking command is sent and the tool *is not* in the storage rack, the unlocking command will not be recognized. The safety function thus prevents the tool from being accidentally released outside the storage rack.

Note: A suitable magnetic switch is available from SCHUNK, see catalog data sheet COS VB7 at **schunk.com**.

Relay circuit in COS VB7-K

The RTU relay in the VB7-K module is activated by closing the magnetic switch on the tool. When closed, the relay forwards the unlocking command. An RTL Verify diagnostic signal is also output. When the RTU relay is open, the RTL Verify signal should be at a low level.

Note: The RTL Verify signal may indicate damage to the RTU relay, the cable or the mechanical switch. For maximum security, the status of the RTL Verify signal should be monitored, ▶ 5.5 [🗋 23].

Emergency release

If the tool changer is locked without the tool, it must be unlocked using the manual emergency actuation on the valve (JU module).

6 Troubleshooting

6.1 Electrical signals are not transmitted

Possible cause	Corrective action
Pin block is dirty or damaged.	Clean the pin block, ▶ 7.3 [🗋 29]
Spring contact is jammed in the pin block or damaged.	Loosen spring contact. Send damaged products to SCHUNK for repair.
Cable for signal transmission damaged.	Check cable and connections and replace if necessary.
Cable for integrated interlock monitoring is damaged.	Send damaged products to SCHUNK for repair.
Housing of the module is damaged.	
Pins are blackened due to previous arcing/ short circuit.	

7 Maintenance

7.1 Notes

⚠ WARNING

Risk of injury from electric shock due to contact with live parts!

- Before starting any work: Disconnect the power supply from the mains and secure against accidental switch-on.
- Work may only be performed by appropriately qualified personnel.

Original spare parts

Only use original SCHUNK spare parts when replacing wearing parts / spare parts.

7.2 Maintenance intervals

Maintenance interval	Maintenance work
monthly	• Check optional module for damage and wear, clean if necessary, and replace seals, ▶ 7.3 [🗋 29]. • Check fittings for tightness and tighten to the required torque if necessary. • Check cable connections for tight fit. Clean loose connections and retighten if necessary. • Check the cable sheathing for damage and replace the cable if necessary.
as required	Send damaged products to SCHUNK for repair.

7.3 Cleaning the option module

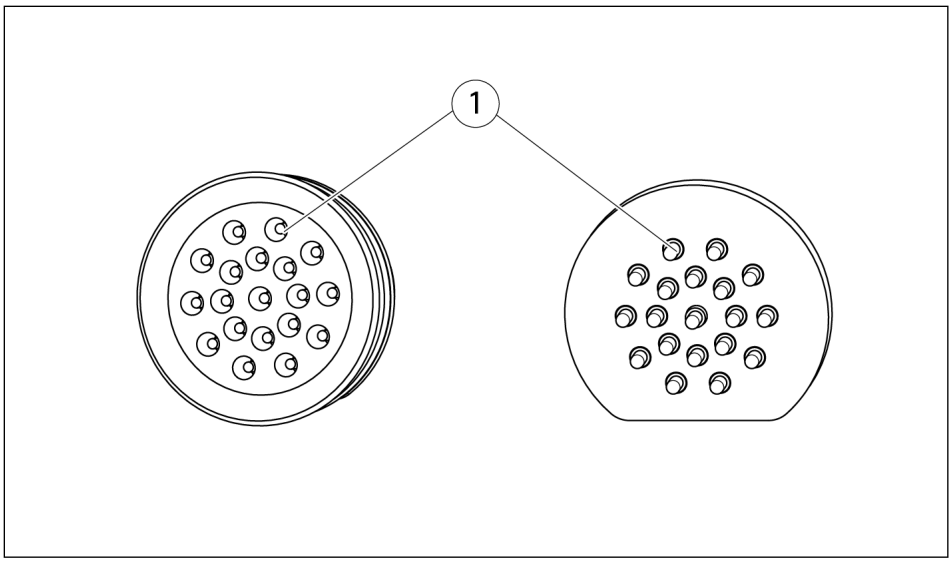
NOTICE

Pins and spring contacts may be damaged!

Only clean the pin block with non-abrasive materials, e.g. a nylon brush or a vacuum cleaner.

- The power supply is switched off.

1. Check the pin block (1) for deposits and blackened spring contacts.
2. Remove deposits with a vacuum cleaner and clean the pin block with a nylon brush.
3. After cleaning, check the pin block for damage and tilted spring contacts.
4. Carefully loosen jammed spring contacts by applying light pressure with a blunt tip.
5. If the pins are damaged: Send damaged products to SCHUNK for repair.

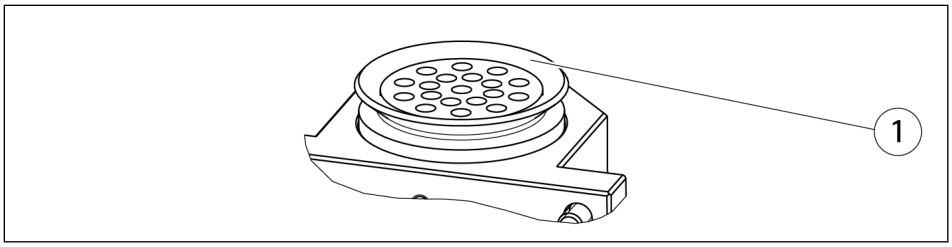


Pin-Block to adapter (...-A) and master (...-K)

7.4 Replacing the V-ring seal on the head

- The power supply is switched off.

1. Remove the seal (1) from the pin block.
2. Check the seal (1) for wear or damage.
3. Carefully pull the new seal apart with your fingers and pull it over the pin block.
4. Press the seal into the groove of the pin block.



Removing and inserting the seal

8 Dismantling and disposal

⚠ WARNING

Risk of injury due to sudden movements!

If the energy supply is switched on or if residual energy is still present in the system, this can cause components to move unexpectedly, which may result in serious injuries.

- Before starting any work on the product: Switch off the energy supply and secure against re-connection.
- Ensure that no residual energy remains in the system.

- Disconnect the entire power supply from the product, discharge any stored residual energy.
- Remove any lubricants and dispose of them in an environmentally friendly manner.
- Dispose of product components for recycling or proper disposal in accordance with local regulations.

9 EU Declaration of Conformity

according to EU Directive 2014/35/EU

Manufacturer/ Distributor	SCHUNK SE & Co. KG Spanntechnik | Greiftechnik | Automatisierungstechnik Bahnhofstr. 106 – 134 D–74348 Lauffen/Neckar
Product designation:	Optional module / COS VB /electric
ID number	1586751, 1586752, 1586753

We hereby declare on our sole authority that the product meets the requirements of the following directives at the time of the declaration.
The declaration is rendered invalid if modifications are made to the product.

- **Low Voltage Directive 2014/35/EU**

Applied harmonized standards, especially:

EN 61010–1:2010	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements

Signed for and on behalf of: SCHUNK SE & Co. KG

Signature: see original declaration

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

Lauffen/Neckar, June 2025

10 UKCA Declaration of Conformity

Manufacturer/ Distributor	SCHUNK Intec Limited Clamping and gripping technology 3 Drakes Mews, Crownhill MK8 0ER Milton Keynes
Product designation:	Optional module / COS VB /electric
ID number	1586751, 1586752, 1586753

We hereby declare on our sole authority that the product meets the requirements of the following directives at the time of the declaration.
The declaration is rendered invalid if modifications are made to the product.

- **Electrical Equipment (Safety) Regulations 2016**

Applied harmonized standards, especially:

EN 61010-1:2010	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 1: General requirements

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

Signed for and on behalf of: SCHUNK SE & Co. KG

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

Lauffen/Neckar, June 2025

11 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

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

Lauffen/Neckar, June 2025

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