



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS VB7

Robust. Reliable. Flexible.

Optional modules COS

Optional modules for feeding through different media such as electrical signals, pneumatics, fluids and vacuum.

Field of application

For fast media transfer with short change-over times between change master and change adapter in order to supply the end effector with the required media.

Advantages – Your benefits

Fits perfectly for easy combination with SCHUNK tool changers

Wide range of different variants for feeding through of various media

Module variety the appropriate module for the required media transfer for every size of SCHUNK tool changers

Connector variants with radial, axial, and side cable outlet for a low interfering contour in restricted spaces

Combination of several optional modules for maximum flexibility of the tool changer

Minimum wear for a high number of change cycles and a long service life

Customer-specific designs available on request the suitable solution for any application

Cable connector, cable extensions and protection covers available on request for a comprehensive complete solution from one source



Application example



① Automatic tool changers CPS

③ Modular storage rack CTS

⑤ 2-finger parallel gripper JGP-P

② Optional modules COS

④ Universal gripper EGU

SCHUNK offers more ...

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



Tool changer



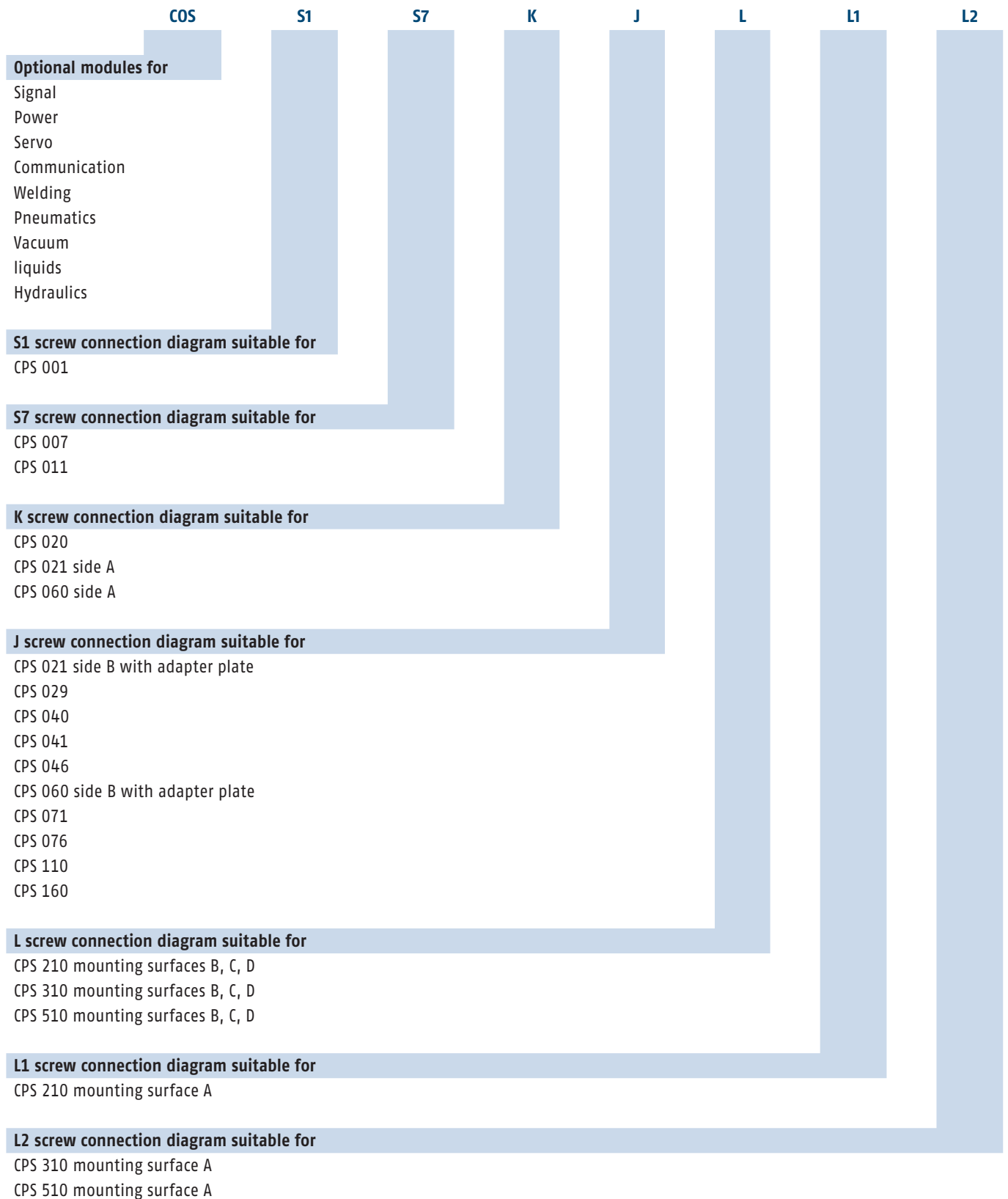
Manual change system



Pallet change system

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

Overview of optional modules and mounting pattern



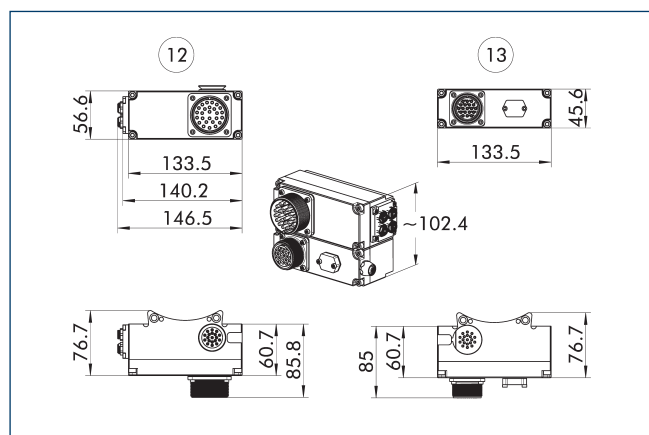
Special designs with modified seals or lubrication are available on request



Technical data

Description		COS VB7-K	COS VB2-A	COS VB3-A
ID		1586753	1586751	1586752
Suitable on		Change head	Tool	Tool
Screw connection diagram		L	L	L
Transmission type		Signal	Signal	Signal
Weight	[kg]	0.77	0.59	0.6
Min./max. ambient temperature	[°C]	5/60	5/60	5/60
Protection class IP		IP64 (only in a coupled state)	IP64 (only in a coupled state)	IP64 (only in a coupled state)
Number of pin contacts		14	14	10
Nominal current	[A]	5	5	5
Alternating voltage	[V AC]	250	250	250
Direct voltage	[V DC]	250	250	250
Electrical connection		Amphenol MS threaded cap connector, 26 pins	Amphenol MS threaded cap socket, 19 pins	Amphenol MS threaded cap socket, 19 pins
Outlet connection		radial	radial	radial
Special properties		Control module for use with COS JU2-K and COS JU3-K, 14 pins for free use.	14 pins for free use, storage position sensor can be plugged in (RTU tool side).	10 pins for free use, rotary encoder switch for tool coding of 0 – 15 tools. Designed for max. 0.15 A and 24 V, storage position sensor attachable (RTU tool side).

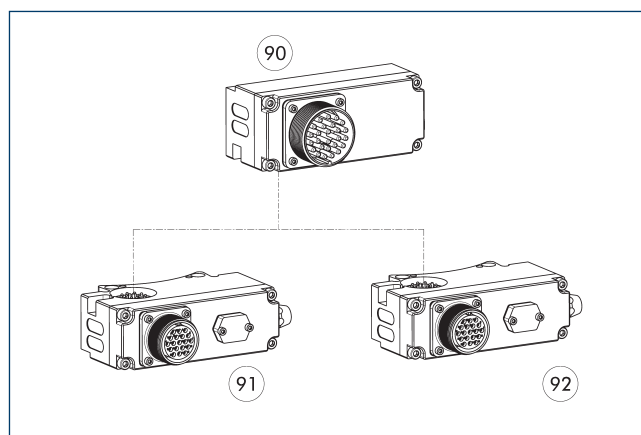
Combination COS VB7-K and COS VB2-A



12 Master side

13 Adapter side

Combination possibilities VB7

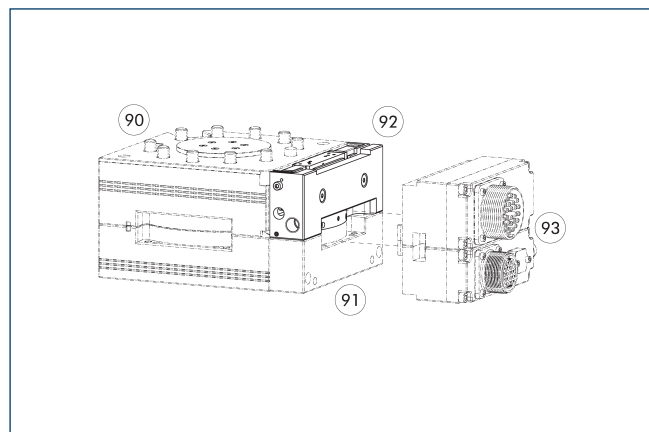


90 COS VB7-K

91 COS VB3-A

92 COS VB2-A

Pneumatic control module



90 Automatic tool changer CPS

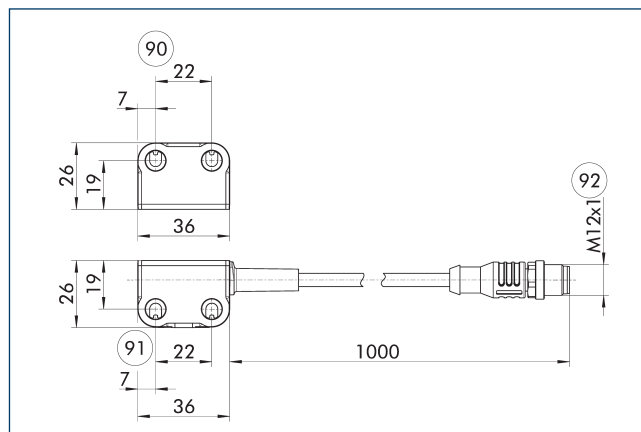
91 Distance plate

92 Pneumatic control module COS master

93 Control module COS master and adapter

Description	ID	Screw connection diagram
Fluid feed-through module		
COS JU2-K	1586306	L1
COS JU3-K	1586308	L2

MMS 54-S-M12 for COS VB7 with SM-MMS 54



90 Assembly at the storing station

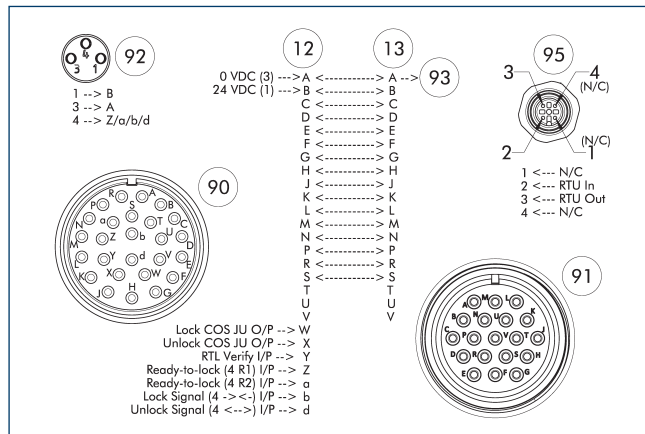
91 Mounting on the CPS adapter

92 M12, 5-pin, A-coded

Description	ID	
Magnetic switches		
MMS 54-S-M12	1653302	
SM-MMS 54	1653303	

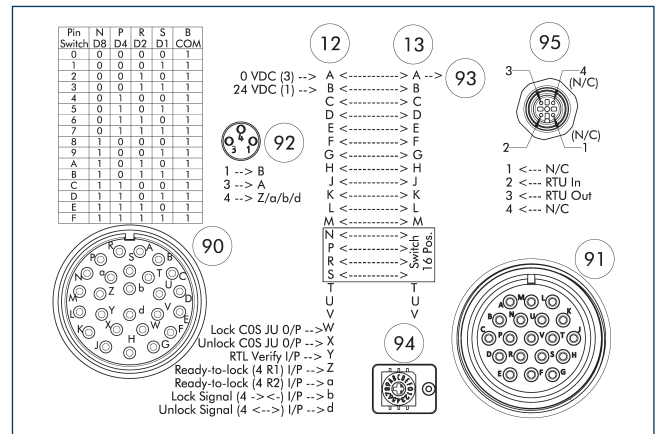
① The SM-MMS 54 switching solenoid can only be used in combination with the MMS 54-S-M12 sensor.

Pin assignment for COS VB7-K with COS VB2-A



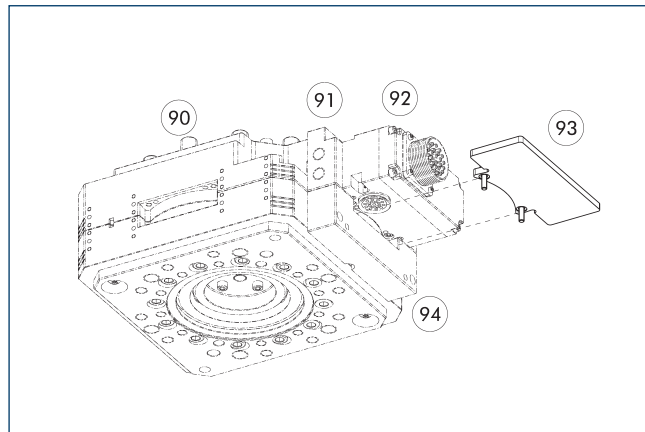
- 12 Master side
- 13 Adapter side
- 90 Amphenol MS threaded cap connector, 26 pins
- 91 Amphenol MS threaded cap socket, 19 pins
- 92 M8 socket, A-coded, 3-pin
- 93 leading pin
- 95 M12 socket, A-coded, 4-pin

Pin assignment for COS VB7-K with COS VB3-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol MS threaded cap connector, 26 pins
- 91 Amphenol MS threaded cap socket, 19 pins
- 92 M8 socket, A-coded, 3-pin
- 93 leading pin
- 94 Rotary encoder switch for tool coding of 0 – 15 tools.
- 95 M12 socket, A-coded, 4-pin

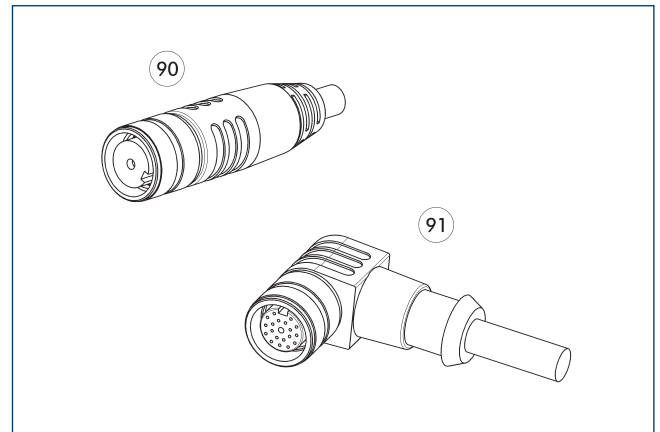
Cover COS UAA-A



- 90 Automatic tool changer CPS
- 91 Pneumatic control module COS master
- 92 Optional module COS master
- 93 Cover COS UAA-A
- 94 Distance plate

Description	ID	Suitable for
Cover		
COS UAA-A	1584130	COS SA2-K and COS VB7-K

Cable plug/cable extension



- 90 Connector/straight socket with extension cable
- 91 Connector/angled socket with extension cable

Description	ID
Angled cable connector, robot-side	
KAS-26G-K-90	0301235
Angled cable connector, tool-side	
KAS-19G-A-90	0301237
Straight cable connector, robot-side	
KAS-26G-K-0	0301234
Straight cable connector, tool-side	
KAS-19G-A-0	0301233

① Detailed information and further cable connectors can be found at schunk.com



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