



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS SA2

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



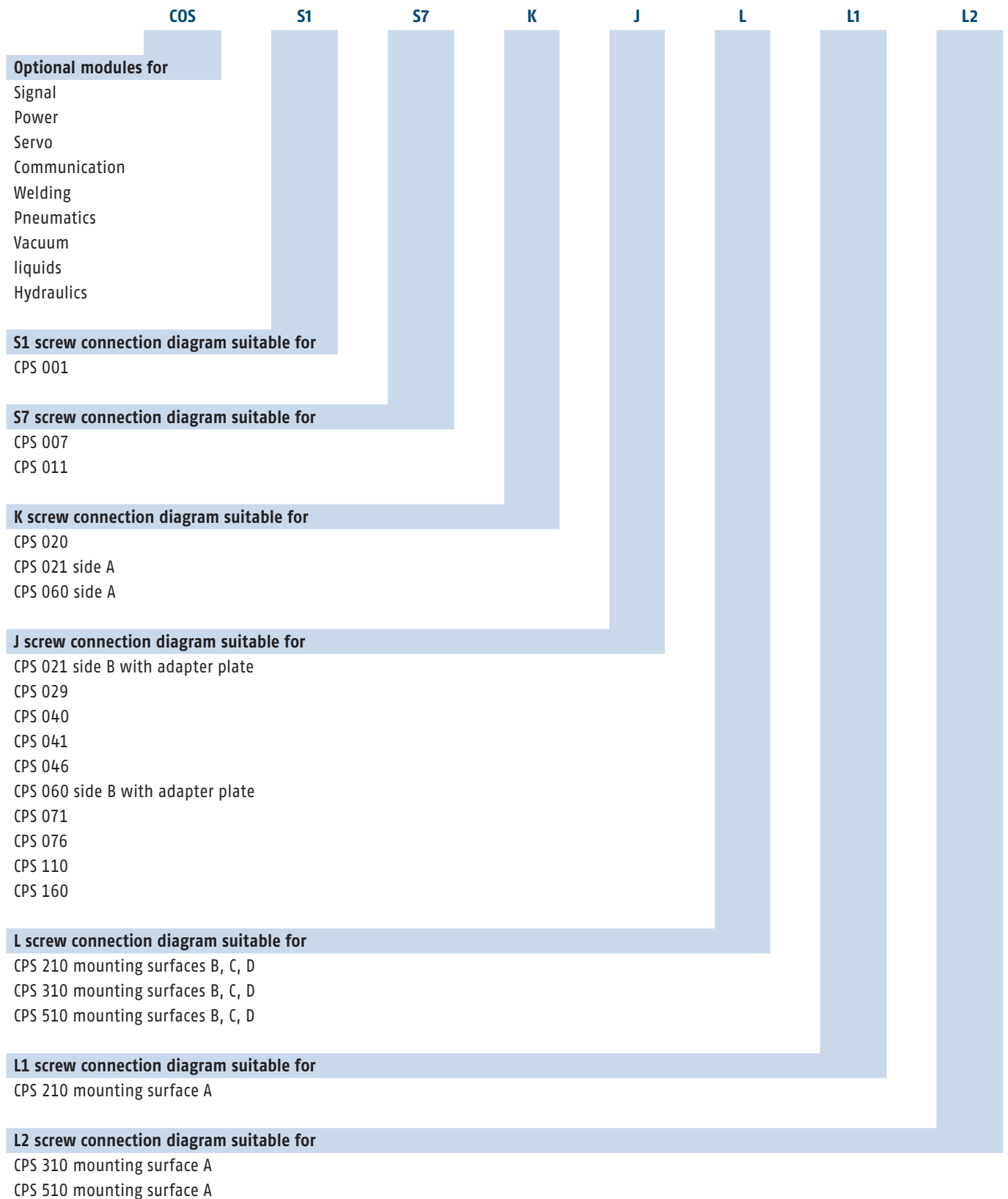
Manual change system



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

COS SA2

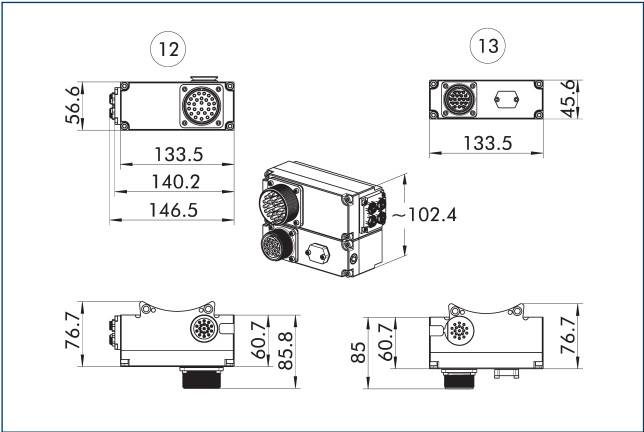
Feed-through modules



Technical data

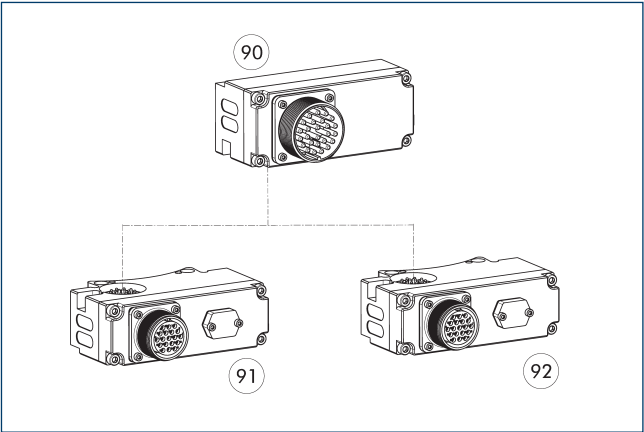
Description		COS SA2-K	COS SA2-A	COS SA3-A
ID		1586714	1586712	1586715
Suitable on		Change head	Tool	Tool
Screw connection diagram		L	L	L
Transmission type		Signal	Signal	Signal
Weight	[kg]	0.77	0.58	0.59
Min./max. ambient temperature	[°C]	5/60	5/60	5/60
Protection class IP		IP64 (only in a coupled state)	IP64 (only in a coupled state)	IP64 (only in a coupled state)
Number of pin contacts		17	17	13
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		17 pins for free use, pin A and B predefined (0 VDC and 24 VDC). Proximity switch cable for piston stroke monitoring and presence monitoring can be plugged in.	17 pins for free use.	13 pins for free use, rotary encoder switch for tool coding of 0 – 15 tools. Designed for max. 0.15 A and 24 V.

Combination COS SA2-K and COS SA2-A



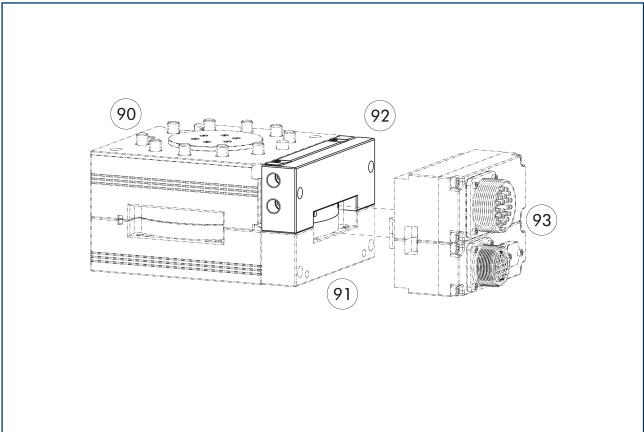
12 Master side 13 Adapter side

Combination possibilities SA2



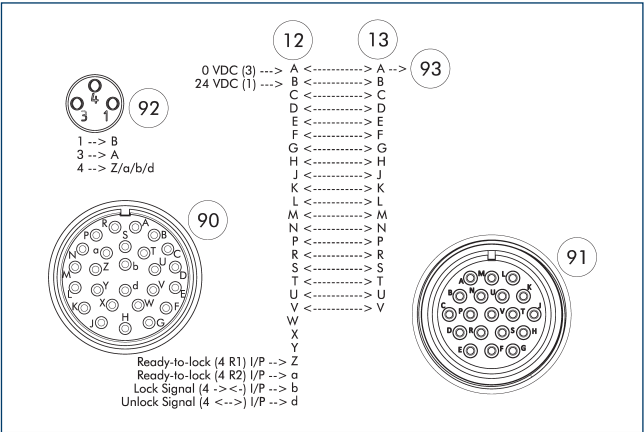
90 COS SA2-K 91 COS SA3-A 92 COS SA2-A

Pneumatic control module



90 Automatic tool changer CPS 91 Distance plate 92 Pneumatic control module COS master 93 Optional module COS master and adapter

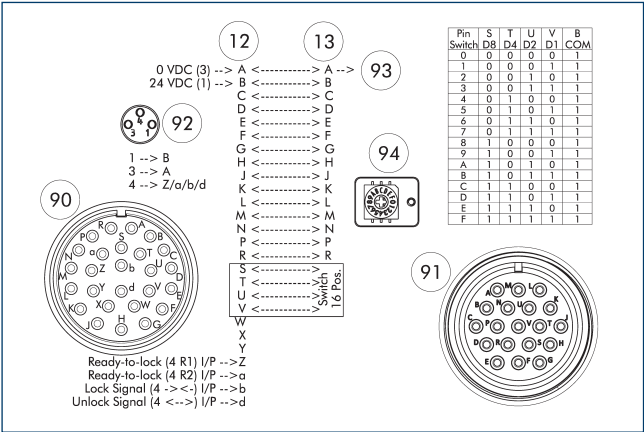
Pin assignment for COS SA2-K with COS SA2-A



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

Description	ID	Screw connection diagram
Fluid feed-through module		
COS JB2-K	1586302	L1
COS JB3-K	1586303	L2

Pin assignment for COS SA2-K with COS SA3-A



- 12 Master side

13 Adapter side

90 Amphenol MS threaded cap connector, 26 pins

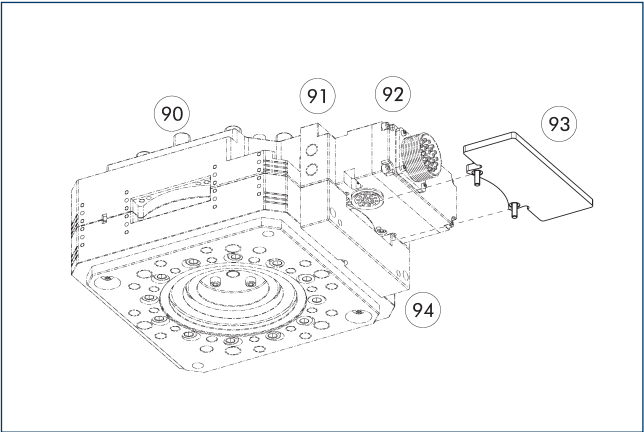
91 Amphenol MS threaded cap socket, 19 pins
- 92 M8 socket, A-coded, 3-pin

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

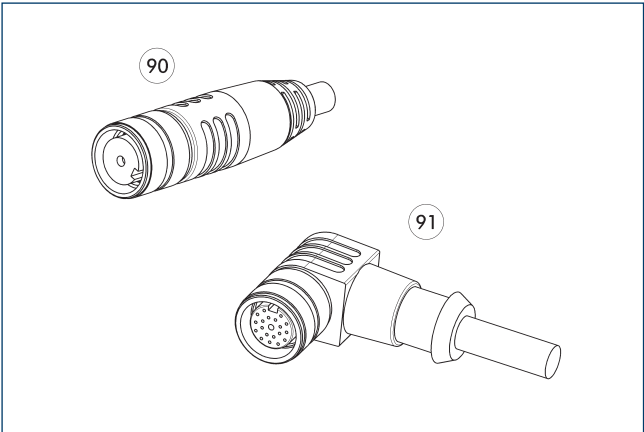
91 Pneumatic control module COS master
- 92 Optional module COS master

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](https://www.schunk.com)



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