



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS S19

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

	COS	S1	S7	K	J	L	L1	L2
Optional modules for								
Signal								
Power								
Servo								
Communication								
Welding								
Pneumatics								
Vacuum								
liquids								
Hydraulics								
S1 screw connection diagram suitable for								
CPS 001								
S7 screw connection diagram suitable for								
CPS 007								
CPS 011								
K screw connection diagram suitable for								
CPS 020								
CPS 021 side A								
CPS 060 side A								
J screw connection diagram suitable for								
CPS 021 side B with adapter plate								
CPS 029								
CPS 040								
CPS 041								
CPS 046								
CPS 060 side B with adapter plate								
CPS 071								
CPS 076								
CPS 110								
CPS 160								
L screw connection diagram suitable for								
CPS 210 mounting surfaces B, C, D								
CPS 310 mounting surfaces B, C, D								
CPS 510 mounting surfaces B, C, D								
L1 screw connection diagram suitable for								
CPS 210 mounting surface A								
L2 screw connection diagram suitable for								
CPS 310 mounting surface A								
CPS 510 mounting surface A								

Special designs with modified seals or lubrication are available on request

COS S19

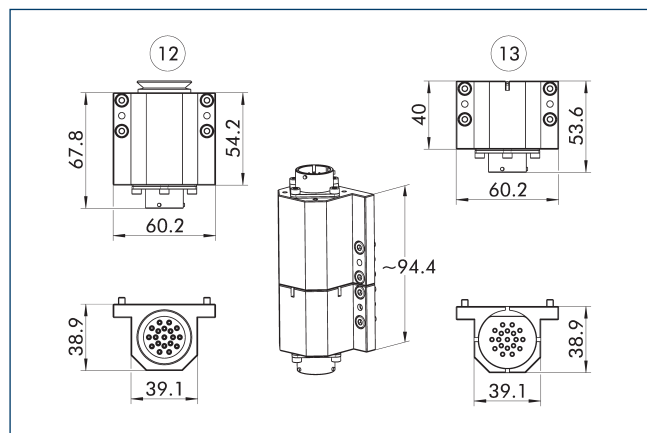
Feed-through modules



Technical data

Description		COS S19-K	COS S19-A	COS S14-A
ID		1586697	1586696	1586695
Suitable on		Change head	Tool	Tool
Screw connection diagram		J	J	J
Transmission type		Signal	Signal	Signal
Weight	[kg]	0.17	0.15	0.2
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		19	19	14
Nominal current	[A]	5	5	5
Alternating voltage	[V AC]	250	250	250
Direct voltage	[V DC]	250	250	250
Electrical connection		Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins
Outlet connection		axial	axial	axial
Special properties				Rotary encoder switch for tool coding of 0 – 15 tools. Designed for max. 0.15 A and 24 V.

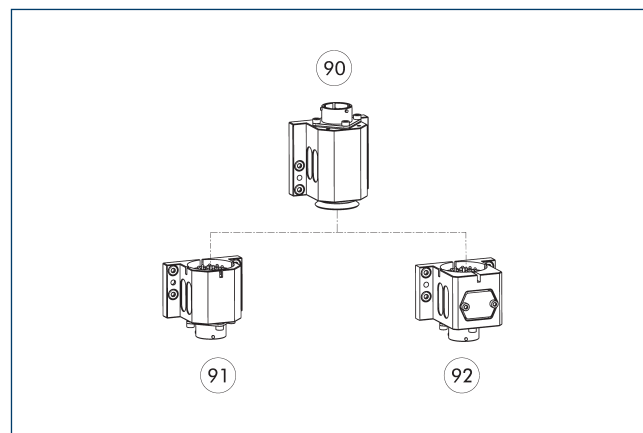
Combination COS S19-K and COS S19-A



12 Master side

13 Adapter side

Combination possibilities S19



90 COS S19-K

92 COS S14-A

91 COS S19-A

Pin assignment for COS S19-K with COS S14-A

Pin	P	S	R	T	U
Switch	D8	D4	D2	D1	COM
0	0	0	0	0	1
1	0	0	0	1	1
2	0	0	1	0	1
3	0	0	1	1	1
4	0	1	0	0	1
5	0	1	0	1	1
6	0	1	1	0	1
7	0	1	1	1	1
8	1	0	0	0	1
9	1	0	0	1	1
A	1	0	1	0	1
B	1	0	1	1	1
C	1	1	0	0	1
D	1	1	0	1	1
E	1	1	1	0	1
F	1	1	1	1	1

12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

91 Amphenol PT bayonet lock socket, 19 pins

92 Rotary encoder switch for tool coding of 0-15 tools.

93 leading pin

Pin assignment for COS S19-K with COS S19-A

Pin	P	S	R	T	U
Switch	D8	D4	D2	D1	COM
0	0	0	0	0	1
1	0	0	0	1	1
2	0	0	1	0	1
3	0	0	1	1	1
4	0	1	0	0	1
5	0	1	0	1	1
6	0	1	1	0	1
7	0	1	1	1	1
8	1	0	0	0	1
9	1	0	0	1	1
A	1	0	1	0	1
B	1	0	1	1	1
C	1	1	0	0	1
D	1	1	0	1	1
E	1	1	1	0	1
F	1	1	1	1	1

12 Master side

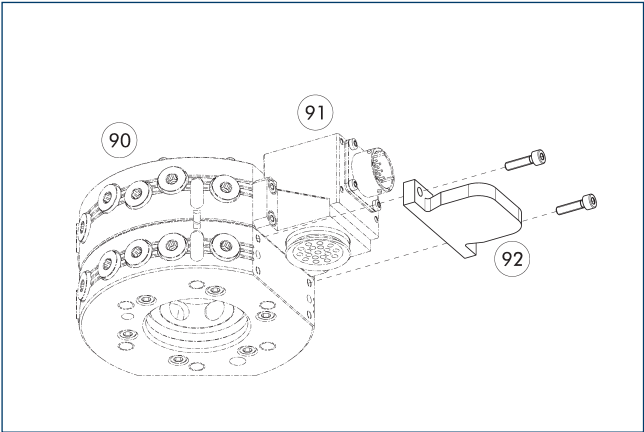
13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

91 Amphenol PT bayonet lock socket, 19 pins

92 leading pin

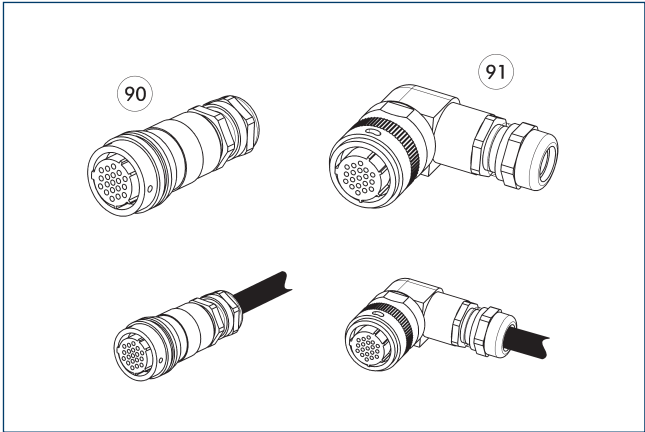
Cover COS JPC-A



- 90 Automatic tool changers CPS
- 92 Cover COS JPC-A
- 91 Optional module COS master

Description	ID	Suitable for
Cover		
COS JPC-A	1584095	For many electrical modules with screw-on pattern J

Cable plug/cable extension



- 90 Plug/socket straight
- 91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length
		[m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
Angled cable connector with cable, robot-side		
KA BW19B-L 19P-0300	0302179	3
KA BW19B-L 19P-0500	0302190	5
Angled cable connector with cable, tool-side		
KA SW19B-L 19P-0300	0302191	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
Straight cable connector with cable, robot-side		
KA BG19B-L 19P-0300	0302176	3
KA BG19B-L 19P-0500	0302177	5
Straight cable connector with cable, tool-side		
KA SG19B-L 19P-0300	0302178	3

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



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