



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS RF19

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



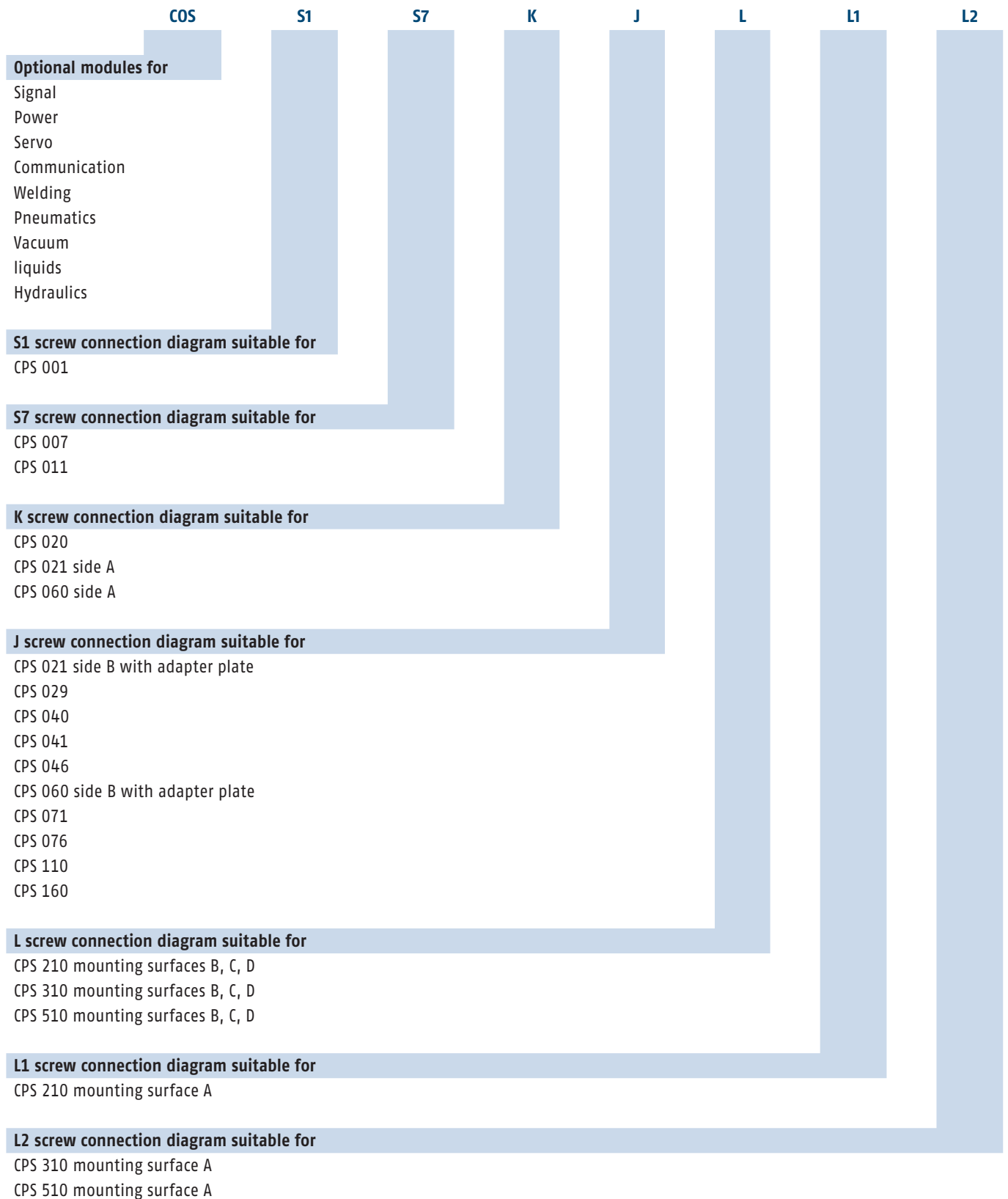
Manual change system



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



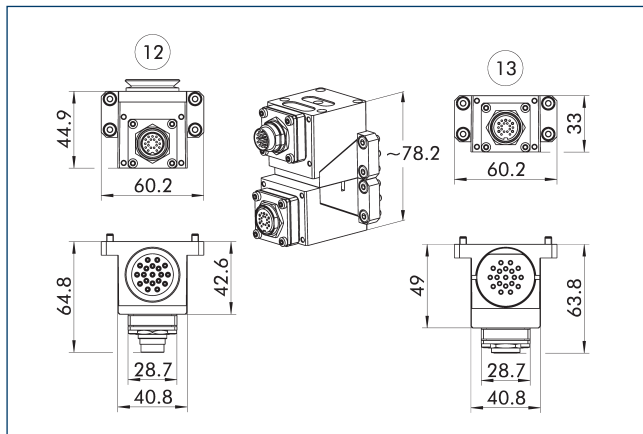
Special designs with modified seals or lubrication are available on request



Technical data

Description		COS RF19-K	COS RF19R-K	COS RF19W-K	COS RF19-A	COS RF14-A	COS RF13-A
ID		1586678	1586679	1586691	1586677	1586676	1586674
Suitable on		Change head	Change head	Change head	Tool	Tool	Tool
Screw connection diagram		J	J	J	J	J	J
Transmission type		Signal	Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.11	0.12	0.12	0.1	0.11	0.12
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	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)	IP64 (only in a coupled state)	IP64 (only in a coupled state)	IP64 (only in a coupled state)
Number of pin contacts		19	15	15	19	14	13
Nominal current	[A]	3	3	3	3	3	3
Alternating voltage	[V AC]	30	30	30	30	30	30
Direct voltage	[V DC]	30	30	30	30	30	30
Electrical connection		M16 connector, 19-pin	M16 connector, 19-pin	M16 connector, 19-pin	M16 socket, 19-pin	M16 socket, 19-pin	M16 socket, 19-pin
Outlet connection		radial	radial	radial	radial	radial	radial
Special properties			Two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.		Rotary encoder switch for tool coding of 0 – 15 tools. Designed for max. 0.15 A and 24 V.	Rotary encoder switch for tool coding for 0–31 tools. Designed for max. 0.15 A and 24 V.

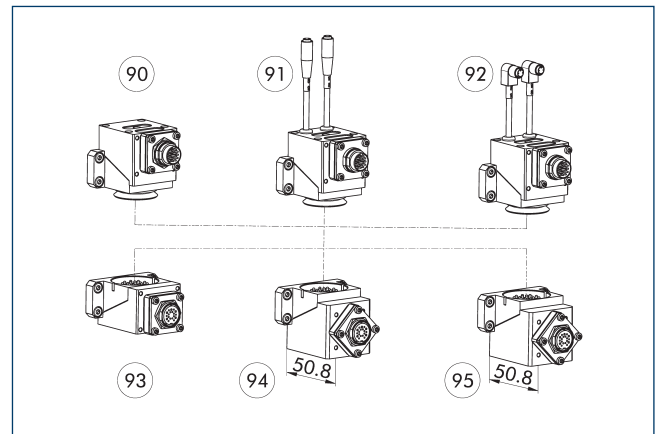
Combination COS RF19-K and COS RF19-A



12 Master side

13 Adapter side

Combination possibilities RF19



90 COS RF19-K

91 COS RF19W-K

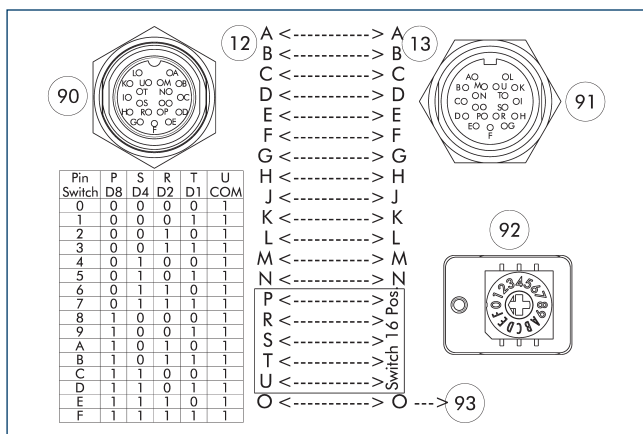
92 COS RF19R-K

93 COS RF19-A

94 COS RF14-A

95 COS RF13-A

Pin assignment for COS RF19-K with COS RF14-A



12 Master side

13 Adapter side

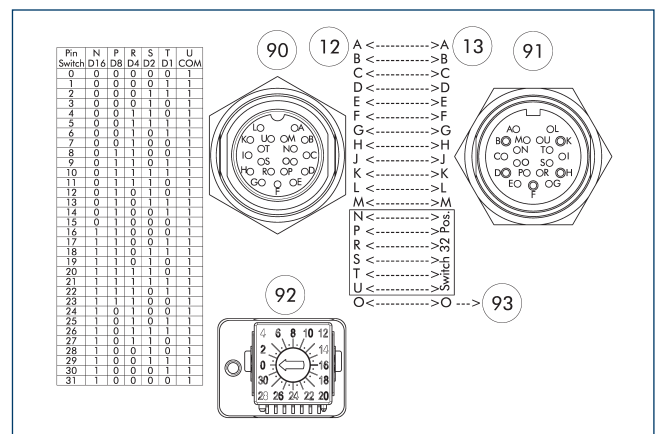
90 M16 connector, 19-pin

91 M16 socket, 19-pin

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

93 leading pin

Pin assignment for COS RF19-K with COS RF13-A



12 Master side

13 Adapter side

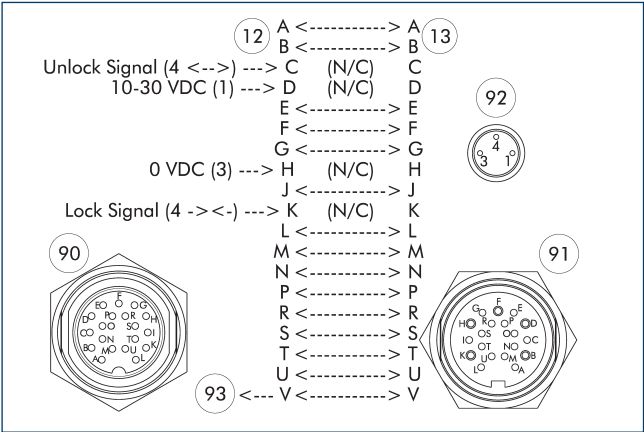
90 M16 connector, 19-pin

91 M16 socket, 19-pin

92 Rotary encoder switch for tool coding for 0 - 31 tools.

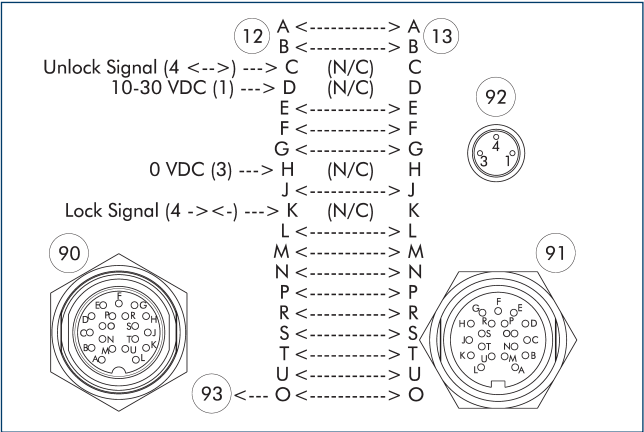
93 leading pin

Pin assignment for COS RF19R-K with COS RF19-A



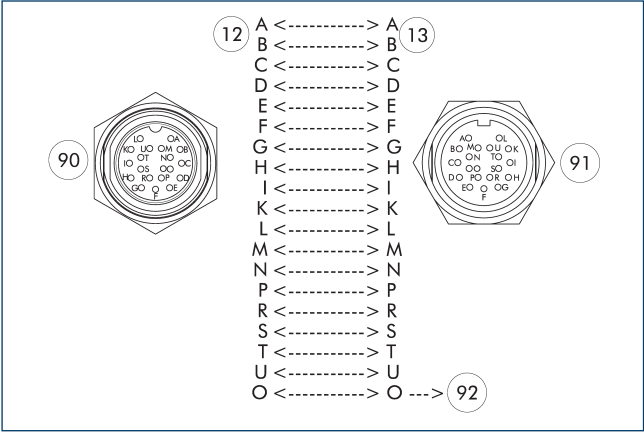
- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 M8 socket, A-coded, 3-pin
93 leading pin

Pin assignment for COS RF19W-K with COS RF19-A



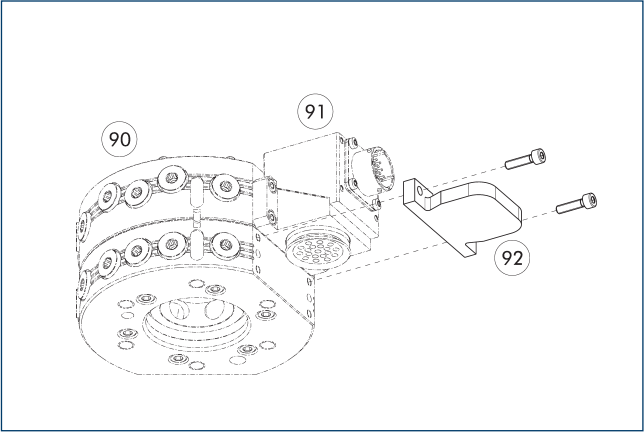
- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 M8 socket, A-coded, 3-pin
93 leading pin

Pin assignment for COS RF19-K with COS RF19-A



- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 leading pin

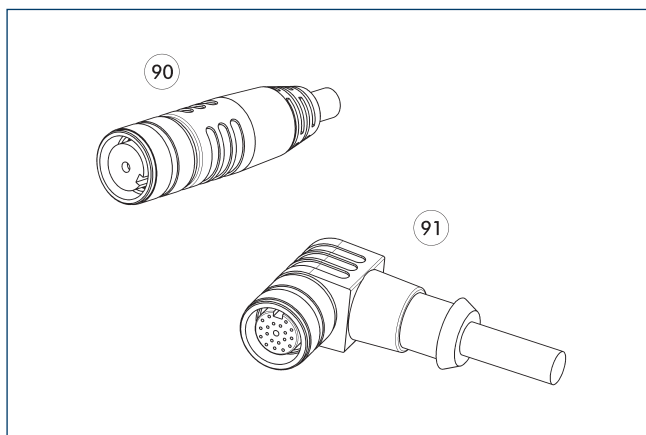
Cover COS JPC-A



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

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

Cable plug/cable extension



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

Description	ID	Length
		[m]
Angled cable connector with cable, robot-side		
KA BW19F-L 19P-0500	0302172	5
KA BW19F-L 19P-1000	0302173	10
Angled cable connector with cable, tool-side		
KA SW19F-L 19P-0300	0302175	3
Straight cable connector with cable, robot-side		
KA BG19F-L 19P-0500	0302170	5
KA BG19F-L 19P-1000	0302171	10
Straight cable connector with cable, tool-side		
KA SG19F-L 19P-0300	0302174	3

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



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