



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS KE8

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 KE8

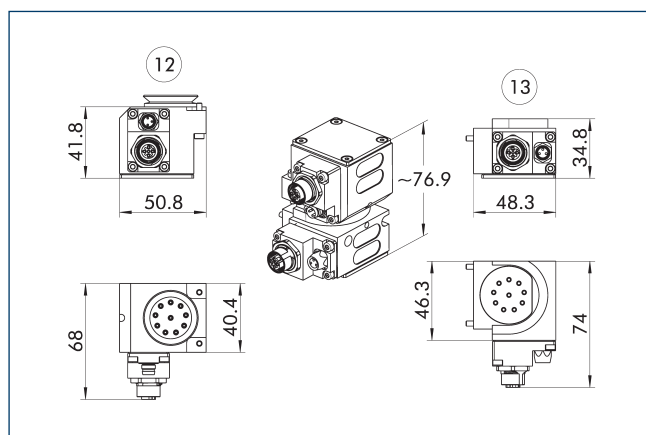
Feed-through modules



Technical data

Description		COS KE8-K	COS KE8-A
ID		1586426	1586425
Suitable on		Change head	Tool
Screw connection diagram		K	K
Transmission type		Communication	Communication
Weight	[kg]	0.15	0.14
Min./max. ambient temperature	[°C]	5/60	5/60
Protection class IP		IP64 (only in a coupled state)	IP64 (only in a coupled state)
Bus system		EtherNet	EtherNet
Transmission Speed	[Mbit/s]	100	100
Nominal current	[A]	4	4
Alternating voltage	[V AC]	125	125
Direct voltage	[V DC]	125	125
Electrical connection		M12, Female D-Coded connector	M12, Female D-Coded connector
Outlet connection		radial	radial
Electrical connection		M8 connector, A-coded, 4-pin	M8 socket, A-coded, 4-pin
Electrical connection outlet		radial	radial
Special properties		Supports Power-over-Ethernet (PoE).	Supports Power-over-Ethernet (PoE).

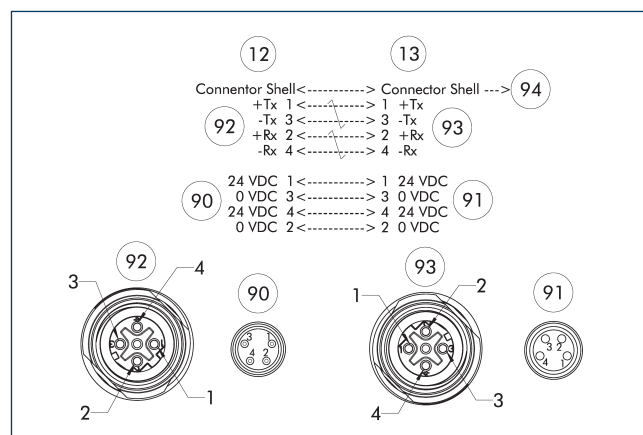
Combination of COS KE8-K and COS KE8-A



12 Master side

13 Adapter side

Pin assignment for COS KE8-K with COS KE8-A



12 Master side

13 Adapter side

90 M8 connector, A-coded, 4-pin

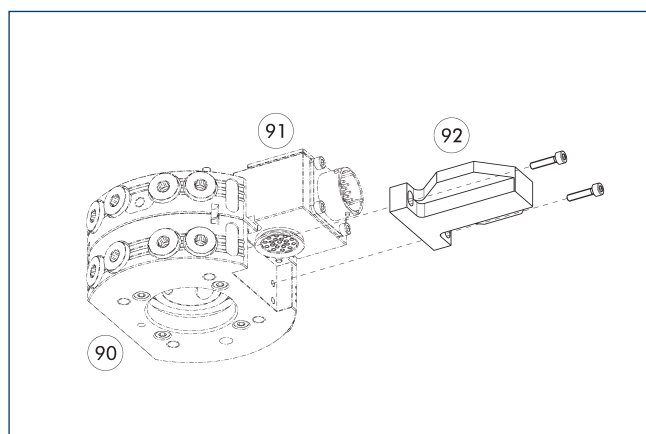
91 M8 socket, A-coded, 4-pin

92 M12, Female D-Coded connector

93 M12, Female D-Coded connector

94 leading pin

Cover COS KPC-A



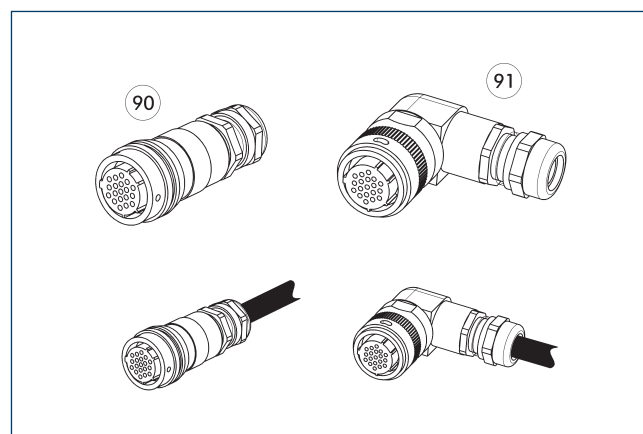
90 Automatic tool changers CPS

92 Cover COS KPC-A

91 Optional module COS master

Description	ID	Suitable for
Cover		
COS KPC-A	1585142	Many electrical modules with screw-on pattern K

Cable plug/cable extension



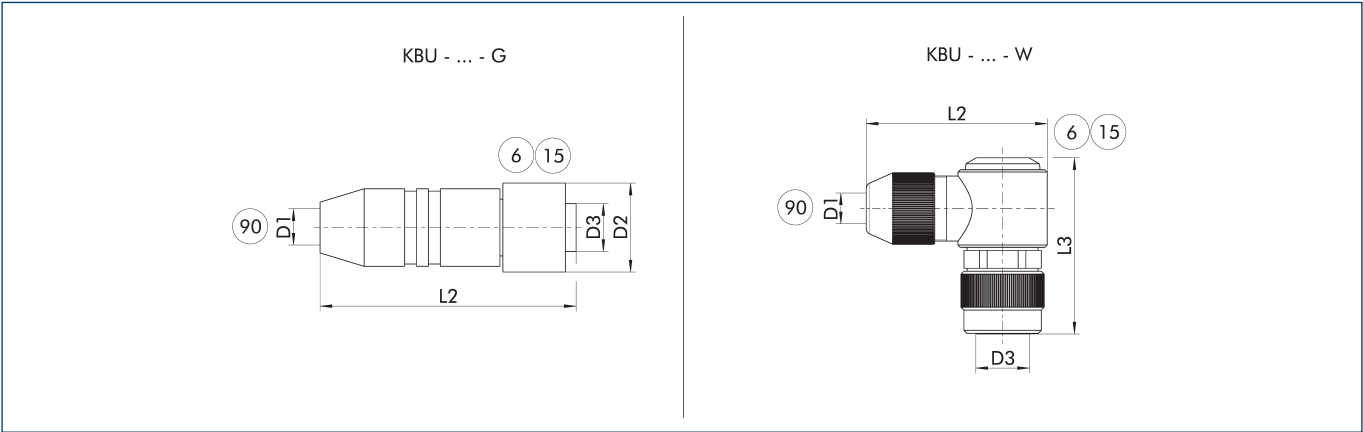
90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Angled cable connector		
KST-M12-W 4DP	1416610	
Straight cable connector		
KST-M12-G 4DP	9965967	
KST-M8-G 4AP	9960108	

Plug-in connector power supply/signals



- KBU - ... - G

Socket with straight outlet
- KBU - ... - W

Socket with angular outlet
- 6

Connection module side
- 15

Socket
- 90

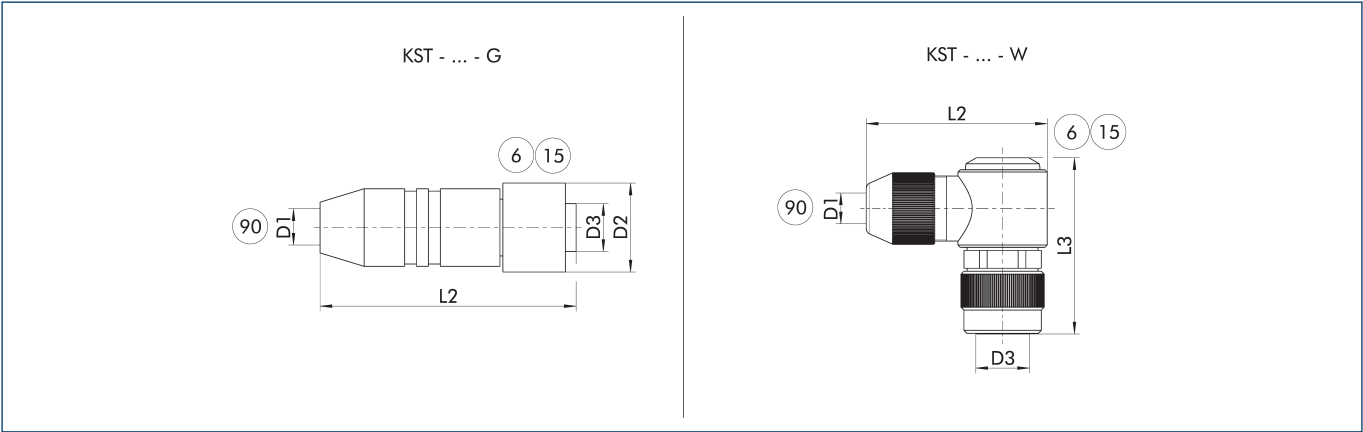
D1 – max. diameter connection cable

The plug connectors are used to connect the SCHUNK products to the voltage supply. A customer cable can be used for this. The individual wire strands can be soldered to the solder pins of the connector.

Description	ID	D1 (max.)	L2	D2	L3	D3
		[mm]	[mm]	[mm]	[mm]	
Cable connector						
KBU-M8-G 4P	1506418	5	37	12		M8
KBU-M8-W 4P	1506422	5	25		28	M8

① For the connection cable, a cross-section for each individual wire strand of 0.25 mm² is recommended. Please refer to the product documentation for information about max. cable length and min. wire cross section.

Power supply plug-in connector



- KST - ... - G

Connection plug with straight outlet
- KST - ... - W

Connection plug with angular outlet
- 6

Connection module side
- 15

Socket
- 90

D1 – max. diameter connection cable

The plug connectors are used to connect the SCHUNK product to the voltage supply. A customer cable can be used for this. The individual wire strands are clamped using screw connections in the plug connector.

Description	ID	D1 (max.)	L2	D2	L3	D3
		[mm]	[mm]	[mm]	[mm]	
Cable connector						
KST-M8-W 4P	1451015	5	41.9	13	32.5	M8

① For the connection cable, a cross-section for each individual wire strand of 0.14 mm² is recommended. Please refer to the product documentation for information about max. cable length and min. wire cross section.



SCHUNK SE & Co. KG

Spanntechnik

Greiftechnik

Automatisierungstechnik

Bahnhofstr. 106 - 134

D-74348 Lauffen/Neckar

Tel. +49-7133-103-0

Fax +49-7133-103-2399

info@de.schunk.com

schunk.com

Folgen Sie uns | *Follow us*

