



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS EN110S1

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 EN110S1

Feed-through modules

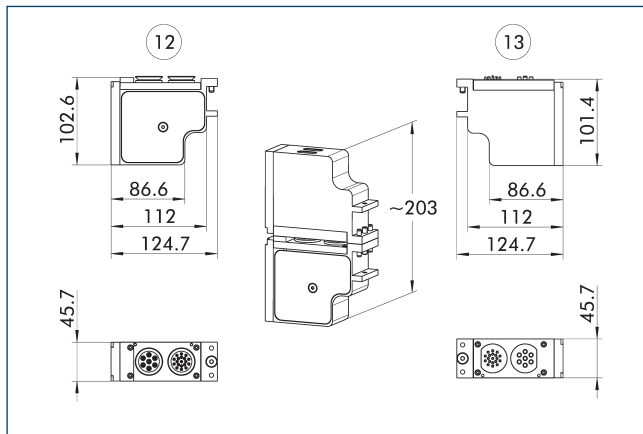


Technical data

Description		COS EN110S1-K	COS EN110S1-A
ID		1586500	1586488
Suitable on		Change head	Tool
Screw connection diagram		L over adapter plate	L over adapter plate
Transmission type		Signal	Signal
Weight	[kg]	0.66	0.67
Min./max. ambient temperature	[°C]	5/60	5/60
Protection class IP		IP64 (only in a coupled state)	IP64 (only in a coupled state)
Number of pin contacts		19	19
Nominal current	[A]	5	5
Alternating voltage	[V AC]	250	250
Direct voltage	[V DC]	250	250
Electrical connection		Implementation by the customer	Implementation by the customer
Number of pin contacts		7	7
Nominal current	[A]	13	13
Alternating voltage	[V AC]	450	450
Direct voltage	[V DC]	700	700
Special properties		Direct soldering of the cable strands to the pin blocks	Direct soldering of the cable strands to the pin blocks

① The adapter plates COS Z56-K-L/3EN, ID 1585129 (robot side), or COS Z56-A-L/3EN, ID 1585144 (tool side), are required for the L-screw connection diagram. Up to three EN110S1 modules can be fastened to it.

Combination of COS EN110S1-K and COS EN110S1-A



12 Master side

13 Adapter side



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