



Hand in hand for tomorrow



Product data sheet

Feed-through modules COS MT8

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).

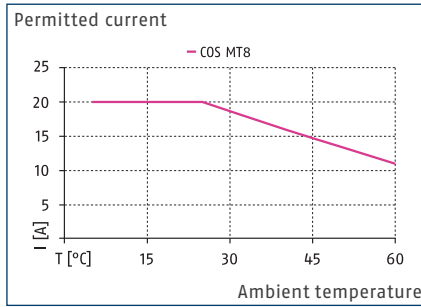
Overview of optional modules and mounting pattern

	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								

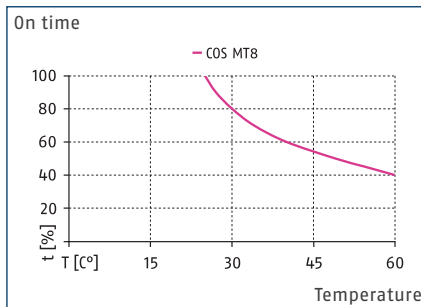
Special designs with modified seals or lubrication are available on request



Derating in continuous operation



Derating in cyclical operation



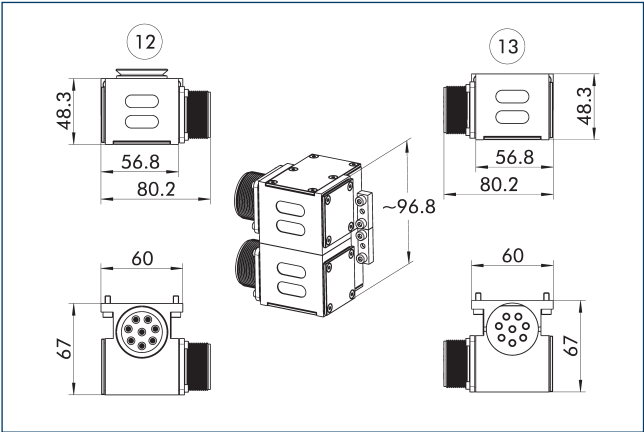
Technical data

Description		COS MT8-K	COS MT8L-K	COS MT8-A	COS MT8L-A
ID		1586685	1586689	1586684	1586687
Suitable on		Change head	Change head	Tool	Tool
Screw connection diagram		J	J	J	J
Transmission type		Power	Power	Power	Power
Weight	[kg]	0.31	0.31	0.33	0.33
Min./max. ambient temperature	[°C]	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)
Number of pin contacts		8	8	8	8
Nominal current	[A]	20	20	20	20
Alternating voltage	[V AC]	450	450	450	450
Direct voltage	[V DC]	700	700	700	700
Electrical connection		Amphenol MS threaded cap connector, 8 pins	Amphenol MS threaded cap connector, 8 pins	Amphenol MS threaded cap socket, 8 pins	Amphenol MS threaded cap socket, 8 pins
Electrical connection outlet		tangential	tangential	tangential	tangential
Special properties		Right cable outlet	Left cable outlet	Right cable outlet	Left cable outlet

Derating in continuous operation: the permitted current depends on the ambient temperature. Exceeding this temperature can lead to overheating and possible product damage.

Derating in cyclical operation: the time-dependent transfer of the maximum rated current (20 A, 10-minute basis) depends on the duty cycle (t). Exceeding the temperature limits can lead to overheating and thus to product damage.

Combination COS MT8-K and COS MT8-A

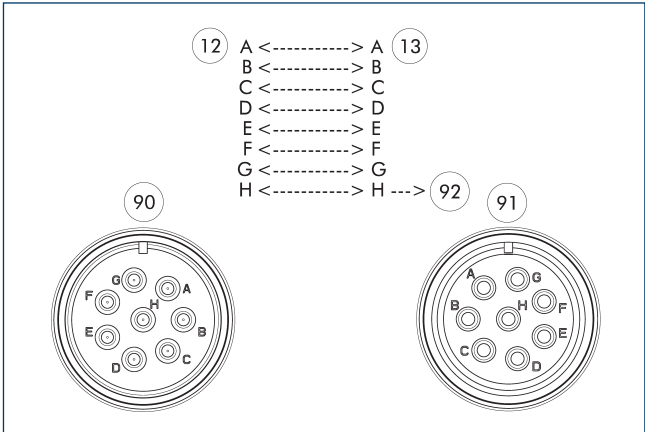


12 Master side

13 Adapter side

① The illustration shows the combination of feed-through modules with tangential cable outlet on the right. This variant is also available with a tangential cable outlet on the left.

Pin assignment for COS MT8-K and COS MT8-A or COS MT8L-K and MT8L-A



12 Master side

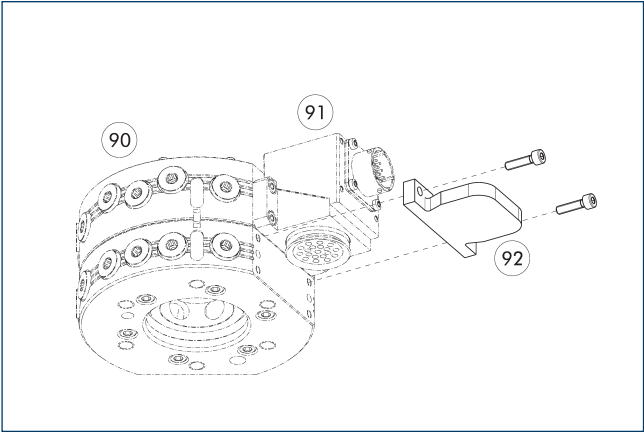
13 Adapter side

90 Amphenol MS threaded cap connector, 8 pins

91 Amphenol MS threaded cap socket, 8 pins

92 leading pin

Cover COS JPC-A



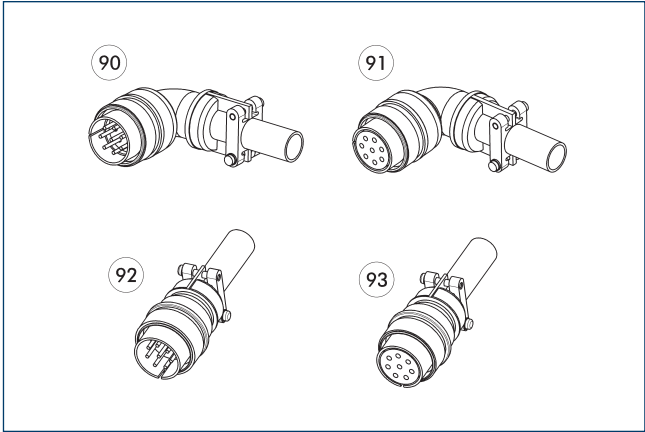
90 Automatic tool changers CPS

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 connector



90 Angled plug

91 Angled socket

92 Straight plug

93 Straight socket

Description	ID	
Angled cable connector, robot-side		
KAS-08G-K-90	0301270	
Angled cable connector, tool-side		
KAS-08G-A-90	0301271	
Straight cable connector, robot-side		
KAS-08G-K-0	0301268	
Straight cable connector, tool-side		
KAS-08G-A-0	0301269	

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



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*

