



Hand in hand for tomorrow



Product data sheet

Feed-through modules COB CB4

Compact. Reliable. Flexible.

Optional modules COB

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

Compact design Ensures a low interfering contour

Wide range of different variants for feeding through of various media

Standardized screw connection Enables quick and easy mounting on SCHUNK tool changers

Combination of several optional modules for maximum flexibility of the tool changer

Sophisticated design Ensures a combination of reliability and durability

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 CPB

② Optional modules COB

③ 2-finger parallel gripper PGN-plus-P

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).

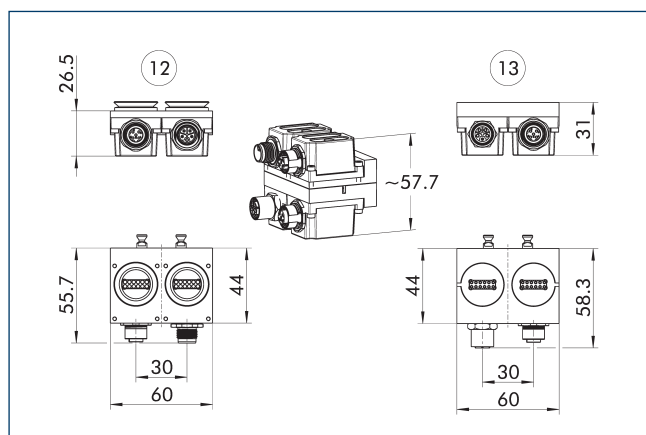


Technical data

Description		COB CB4-K	COB CB4-A	COB CB3-A
ID		1586399	1586396	1586385
Suitable on		Change head	Tool	Tool
Screw connection diagram		B	B	B
Transmission type		Communication	Communication	Communication
Weight	[kg]	0.099	0.111	0.09
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)
Bus system		EtherNet, EtherCat, PROFINET	EtherNet, EtherCat, PROFINET	EtherNet, EtherCat, PROFINET
Transmission Speed	[Mbit/s]	100	100	100
Direct voltage	[V DC]	48	48	48
Electrical connection		M12 socket, D-coded, 4-pin	M12 socket, D-coded, 4-pin	M8 socket, D-coded, 4-pin
Outlet connection		radial	radial	radial
Number of pin contacts		5	5	4
Nominal current output	[A]	10	10	4
Rated current logic	[A]	2	2	2
Electrical connection		M12 plug, L-coded, 5-pin	M12 socket, L-coded, 5-pin	M8 socket, A-coded, 4-pin
Electrical connection outlet		radial	radial	radial

① We recommend using the appropriate connection cables and cable extensions on the following pages for interfering-contour-optimized application.

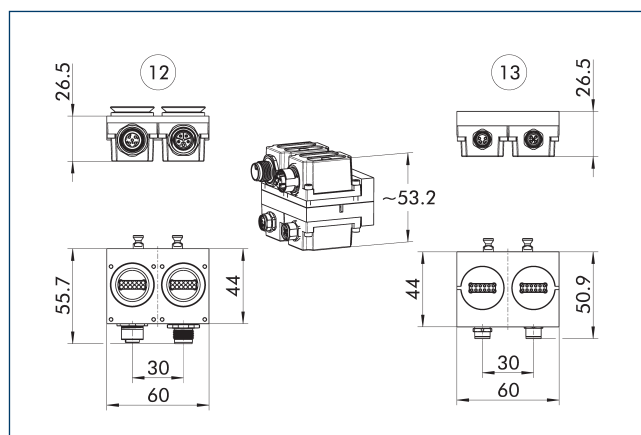
Combination COB CB4-K and COB CB4-A



12 Master side

13 Adapter side

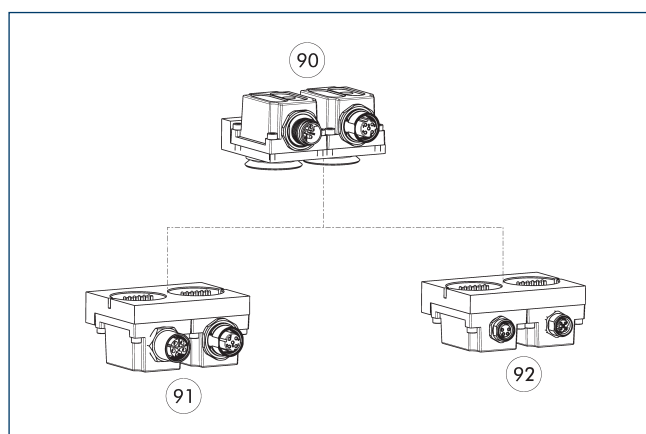
Combination COB CB4-K and COB CB3-A



12 Master side

13 Adapter side

Combination possibilities CB4

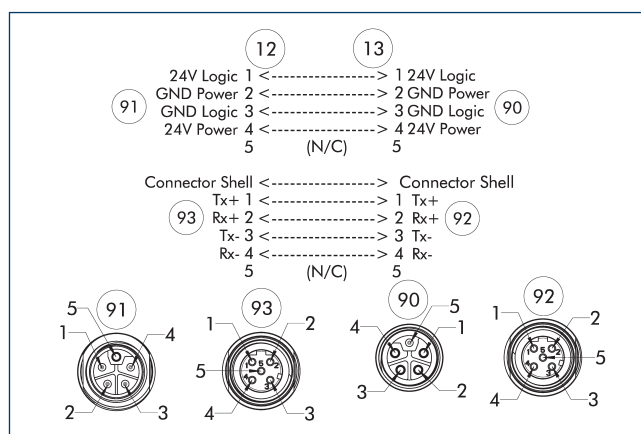


90 COB CB4-K

92 COB CB3-A

91 COB CB4-A

Pin assignment for COB CB4-K and COB CB4-A



12 Master side

13 Adapter side

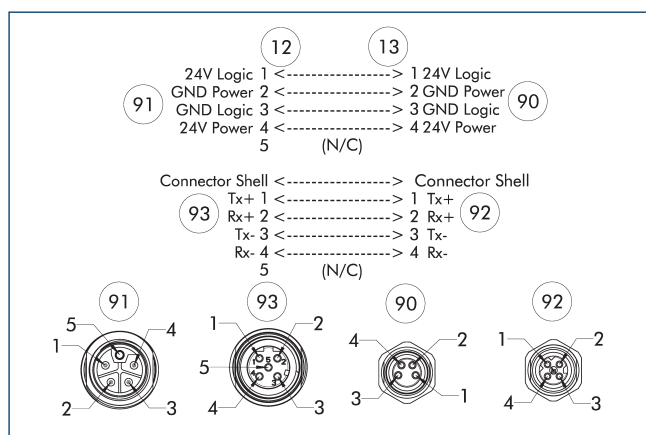
90 M12 socket, L-coded, 5-pin

91 M12 plug, L-coded, 5-pin

92 M12 socket, D-coded, 4-pin

93 M12 socket, D-coded, 4-pin

Pin assignment for COB CB4-K and COB CB3-A



12 Master side

13 Adapter side

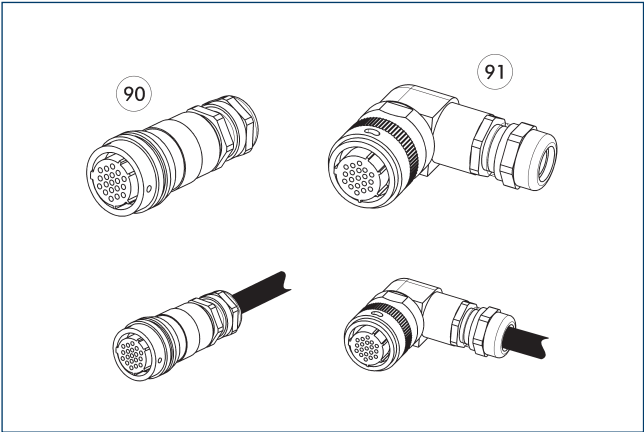
90 M8 socket, A-coded, 4-pin

91 M12 plug, L-coded, 5-pin

92 M8 socket, D-coded, 4-pin

93 M12 socket, D-coded, 4-pin

Cable plug/cable extension

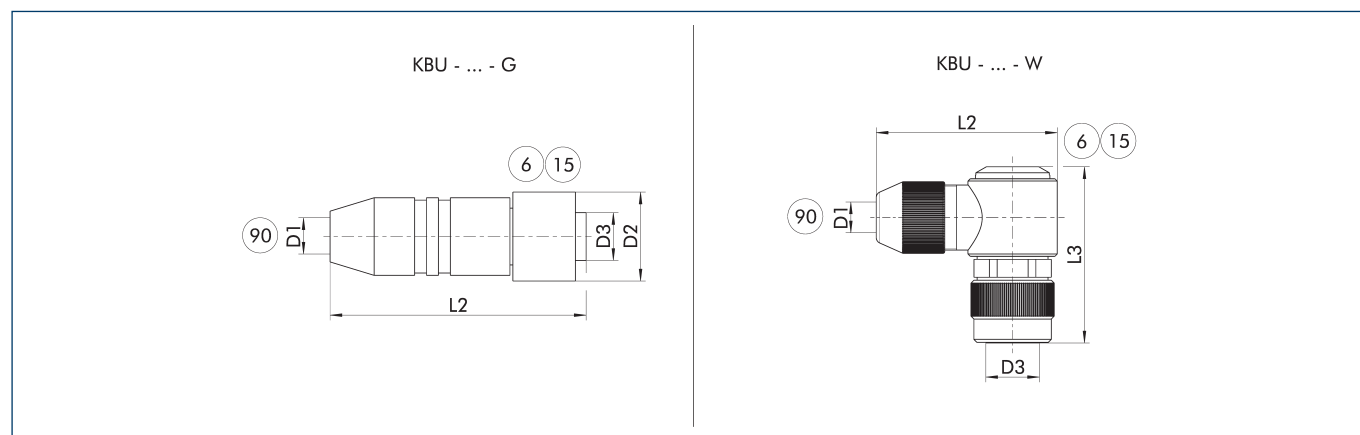


90 Plug/socket straight 91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Angled cable connector		
KST-M12-W 4DP	1416610	
KST-M12-W 5LP	1628062	
KST-M8-W 4AP	1628064	
Straight cable connector		
KST-M12-G 4DP	9965967	
KST-M12-G 5LP	1628063	
KST-M8-G 4AP	9960108	
KST-M8-G 4DP	1628054	
Cable extension		
KA SG124DP-SG124DP-0030	1627613	
KV SG084AP-BG084AP-0030	1628061	
KV SG084AP-BW084AP-0030	1628065	
KV SG084DP-SG084DP-0030	1627617	
KV SG084DP-SW084DP-0030	1627619	
KV SG124DP-SW124DP-0030	1627615	
KV SG125LP-BG125LP-0030	1628052	
KV SG125LP-BW125LP-0030	1628060	

Power supply plug-in connector



KBU - ... - G Socket with straight outlet

KBU - ... - W Socket with angular outlet

⑥ Connection module side

⑮ Socket

⑨⑩ 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]	
Plug connector						
KBU-M12-W 5LP	1543957	13	49	25	99	M12 L-coded

① For the connection cable, a cross-section for each individual wire strand of 1.5 mm² is recommended. Please refer to the product documentation for information about max. cable length and min. wire cross section.



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