



Hand in hand for tomorrow



Product data sheet

Feed-through modules C0B

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.

COB CB1

Feed-through modules

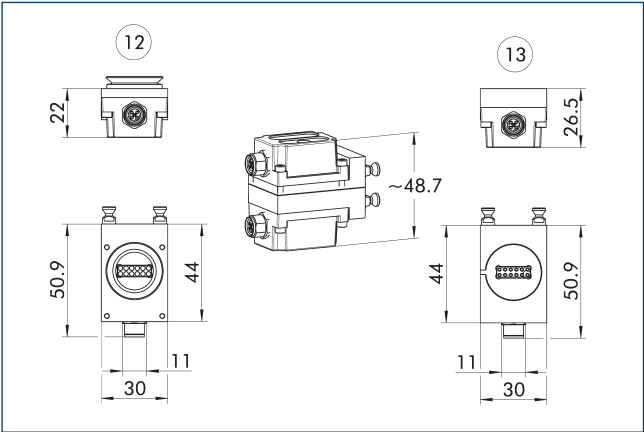


Technical data

Description		COB CB1-K	COB CB1-A
ID		1586376	1586375
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Communication	Communication
Weight	[kg]	0.043	0.046
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, EtherCat, PROFINET	EtherNet, EtherCat, PROFINET
Transmission Speed	[Mbit/s]	100	100
Number of pin contacts		4	4
Nominal current	[A]	2	2
Direct voltage	[V DC]	48	48
Electrical connection		M8 socket, D-coded, 4-pin	M8 socket, D-coded, 4-pin
Outlet connection		radial	radial

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

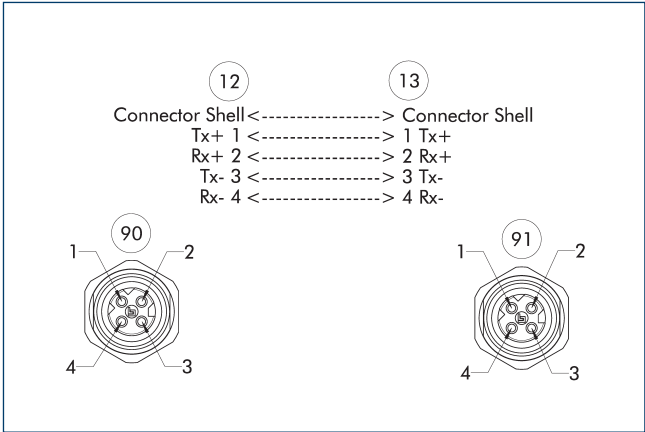
Combination COB CB1-K and COB CB1-A



12 Master side

13 Adapter side

Pin assignment for COB CB1-K and COB CB1-A



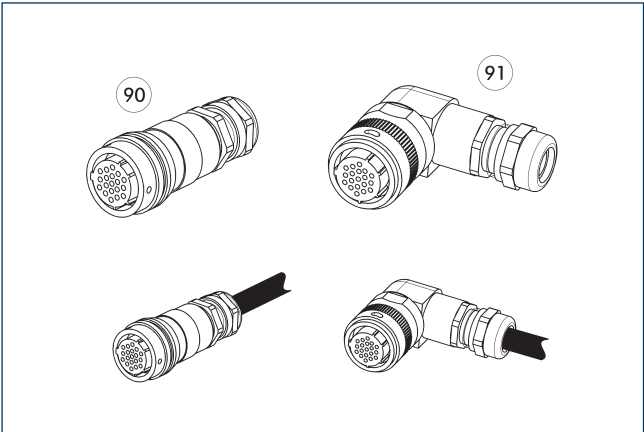
12 Master side

13 Adapter side

90 M8 socket, D-coded, 4-pin

91 M8 socket, D-coded, 4-pin

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Straight cable connector		
KST-M8-G 4DP	1628054	
Cable extension		
KV SG084DP-SG084DP-0030	1627617	
KV SG084DP-SW084DP-0030	1627619	

COB CB2

Feed-through modules

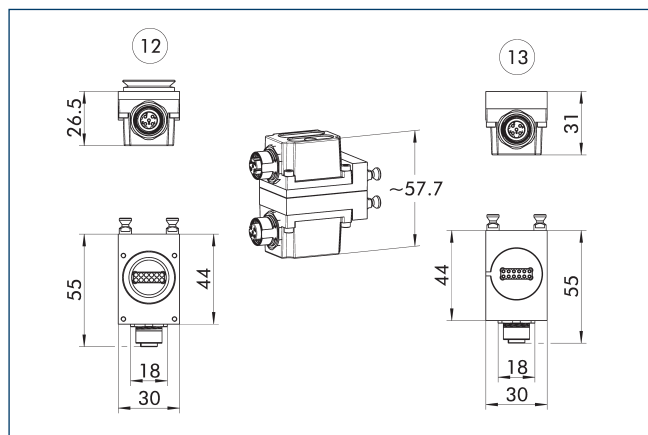


Technical data

Description		COB CB2-K	COB CB2-A
ID		1586383	1586378
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Communication	Communication
Weight	[kg]	0.049	0.054
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, EtherCat, PROFINET	EtherNet, EtherCat, PROFINET
Transmission Speed	[Mbit/s]	100	100
Number of pin contacts		4	4
Nominal current	[A]	2	2
Direct voltage	[V DC]	48	48
Electrical connection		M12 socket, D-coded, 4-pin	M12 socket, D-coded, 4-pin
Outlet connection		radial	radial

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

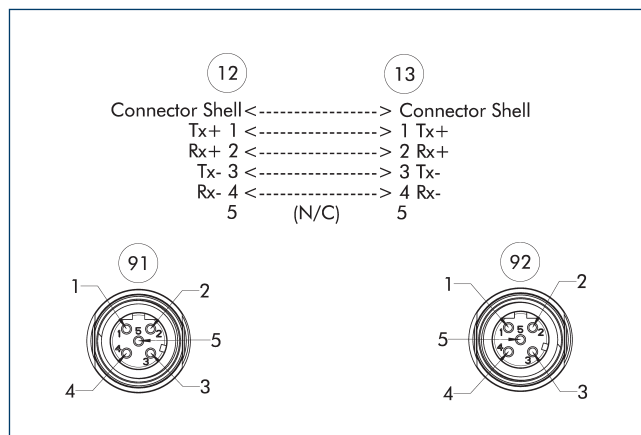
Combination COB CB2-K and COB CB2-A



12 Master side

13 Adapter side

Pin assignment for COB CB2-K and COB CB2-A



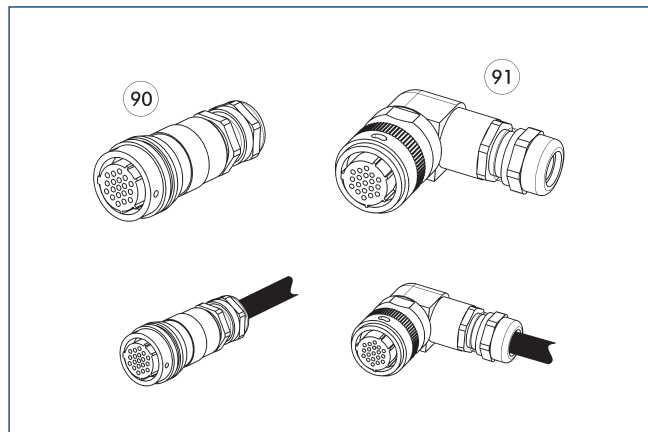
12 Master side

13 Adapter side

91 M12 socket, D-coded, 4-pin

92 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	
Straight cable connector		
KST-M12-G 4DP	9965967	
Cable extension		
KA SG124DP-SG124DP-0030	1627613	
KV SG124DP-SW124DP-0030	1627615	

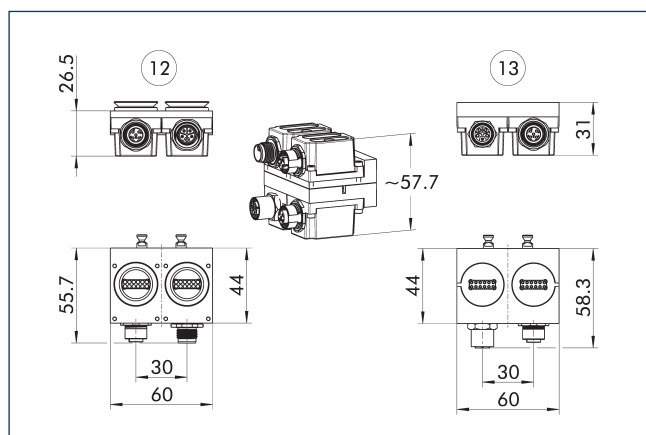


Technical data

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.

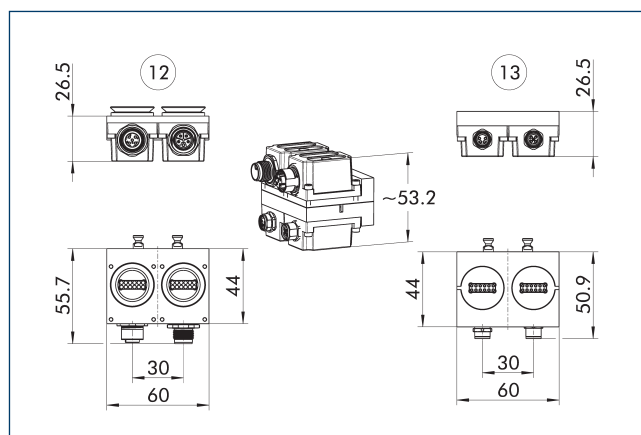
Combination COB CB4-K and COB CB4-A



12 Master side

13 Adapter side

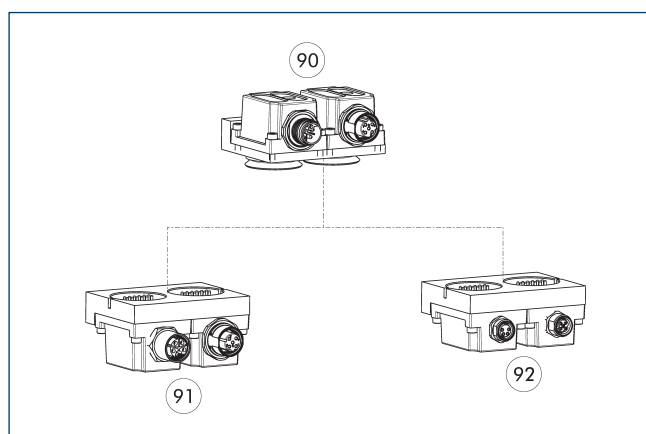
Combination COB CB4-K and COB CB3-A



12 Master side

13 Adapter side

Combination possibilities CB4

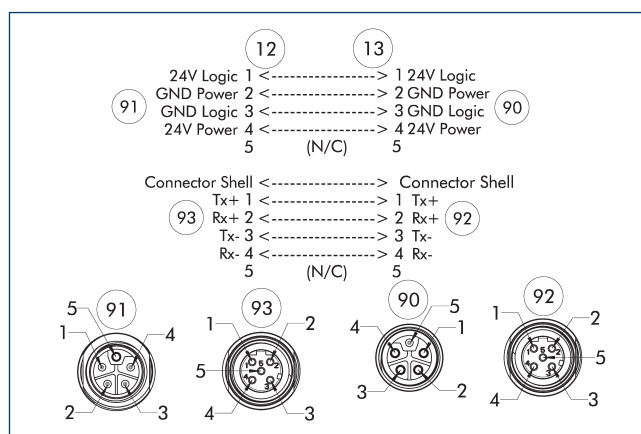


90 COB CB4-K

92 COB CB3-A

91 COB CB4-A

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



12 Master side

13 Adapter side

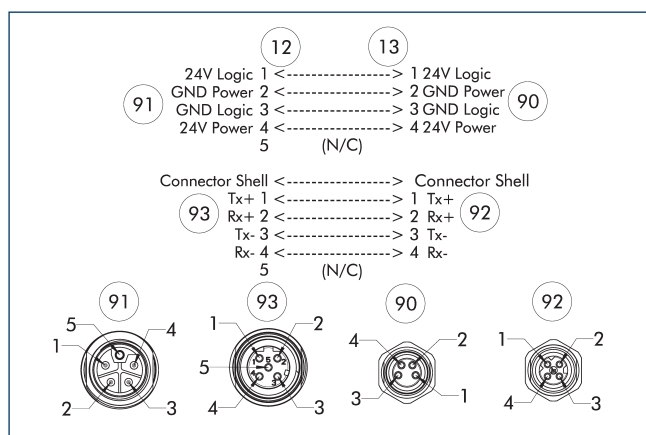
90 M12 socket, L-coded, 5-pin

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

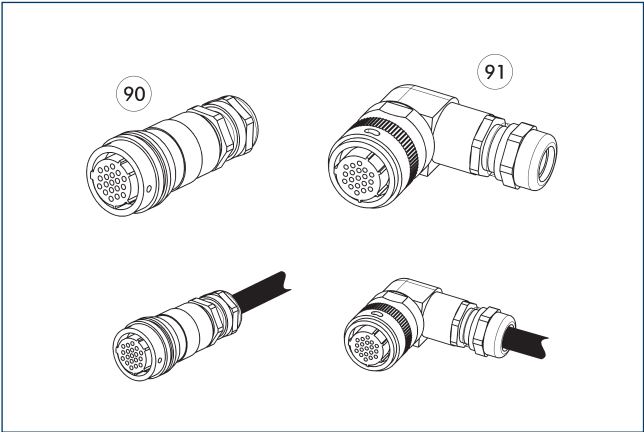
90 M8 socket, A-coded, 4-pin

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

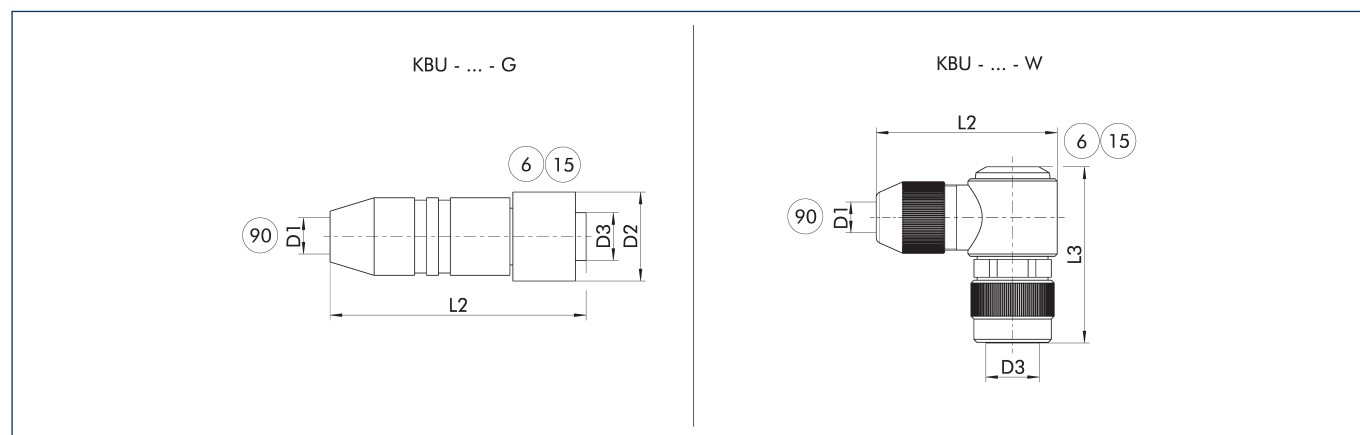


90 Plug/socket straight 91 Connector/angled socket

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.

COB CB6

Feed-through modules

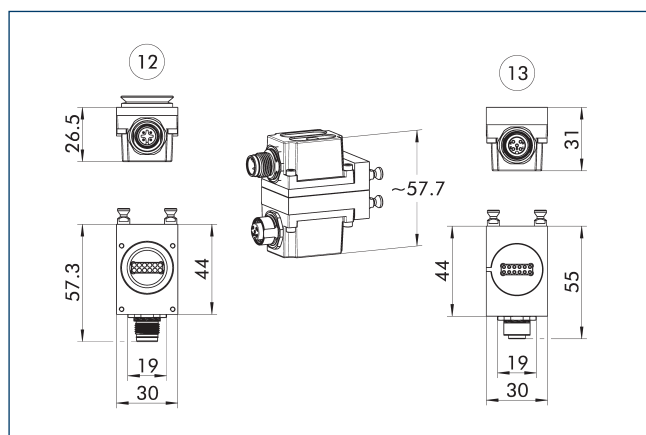


Technical data

Description		COB CB6-K	COB CB6-A
ID		1586415	1586412
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Communication	Communication
Weight	[kg]	0.05	0.054
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		Modbus	Modbus
Number of pin contacts		5	5
Direct voltage	[V DC]	48	48
Electrical connection		M12 connector, A-coded, 4-pin	M12 socket, A-coded, 4-pin
Outlet connection		radial	radial
Nominal current output	[A]	4	4
Rated current logic	[A]	2	2

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

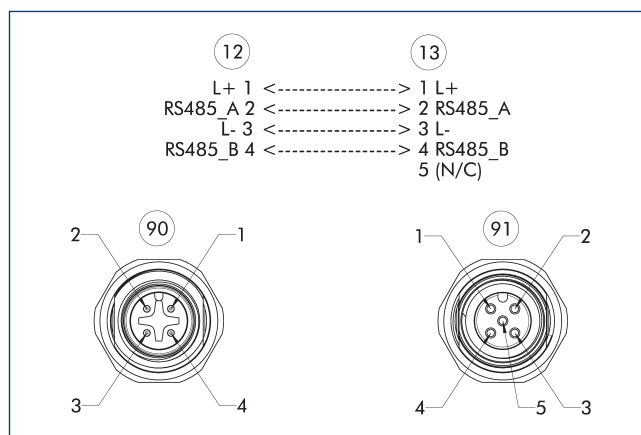
Combination COB CB6-K and COB CB6-A



12 Master side

13 Adapter side

Pin assignment for COB CB6-K and COB CB6-A



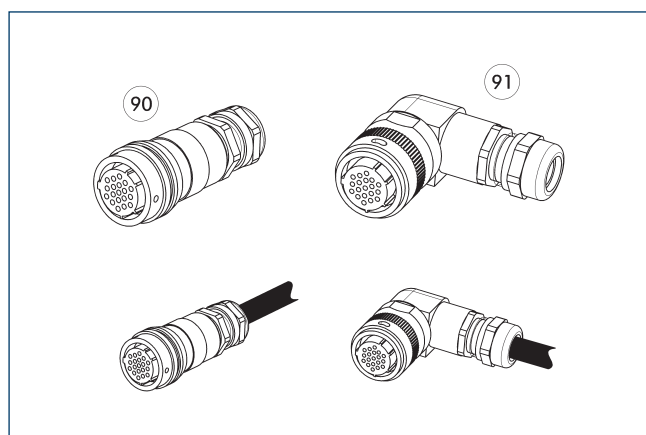
12 Master side

13 Adapter side

90 M12 connector, A-coded, 4-pin

91 M12 socket, A-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		
KBU-M12-W 4AP	1628066	
KST-M12-W 4AP	1628068	
Straight cable connector		
KBU-M12-G 4AP	1628067	
KST-M12-G 4AP	1628069	

COB CI01

Feed-through modules

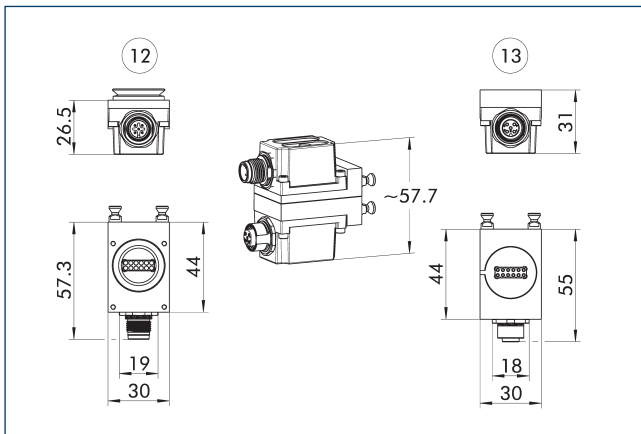


Technical data

Description		COB CI01-K	COB CI01-A
ID		1586418	1586416
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Communication	Communication
Weight	[kg]	0.051	0.054
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		IO-Link Class B	IO-Link Class B
Number of pin contacts		5	5
Direct voltage	[V DC]	48	48
Electrical connection		M12 plug, A-coded, 5-pin	M12 socket, A-coded, 5-pin
Outlet connection		radial	radial
Nominal current output	[A]	4	4
Rated current logic	[A]	2	2

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

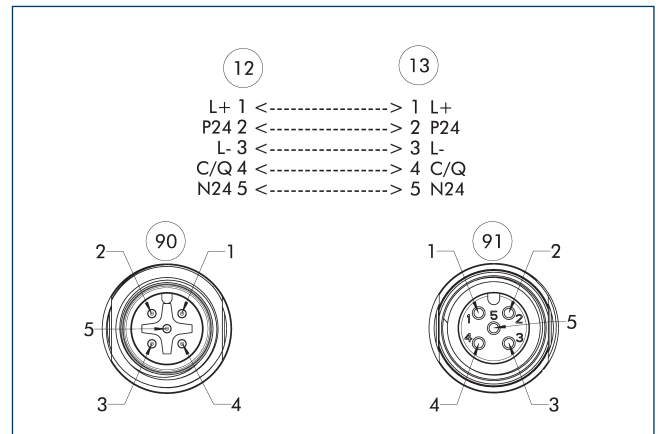
Combination COB CI01-K and COB CI01-A



12 Master side

13 Adapter side

Pin assignment for COB CI01-K and COB CI01-A



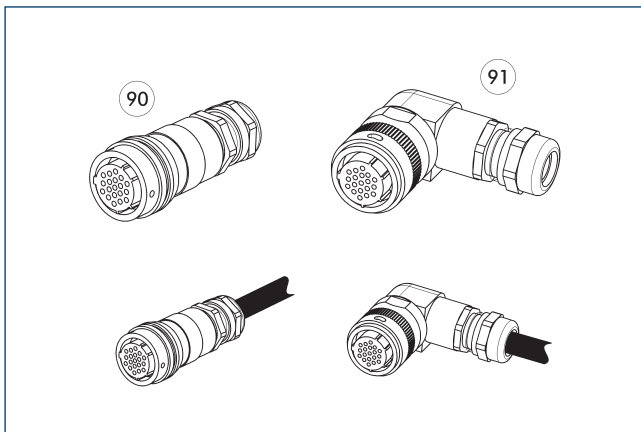
12 Master side

13 Adapter side

90 M12 plug, A-coded, 5-pin

91 M12 socket, A-coded, 5-pin

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Angled cable connector		
KBU-M12-W 5AP	1628055	
KST-M12-W 5AP	1628058	
Straight cable connector		
KBU-M12-G 5AP	1628057	
KST-M12-G 5AP	1628059	
Cable extension		
KV SG125AP-BG125AP-0030	1628050	
KV SG125AP-BW125AP-0030	1628051	

COB P2

Feed-through modules

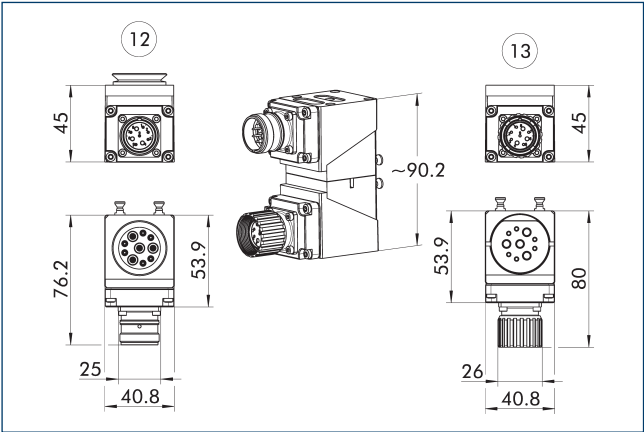


Technical data

Description		COB P2-K	COB P2-A
ID		1607006	1607007
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Servo	Servo
Weight	[kg]	0.17	0.17
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		6	6
Nominal current	[A]	5	5
Alternating voltage	[V AC]	48	48
Direct voltage	[V DC]	74	74
Electrical connection		M23 connector, 9-pin	M23 socket, 9-pin
Outlet connection		radial	radial
Number of pin contacts		3	3
Nominal current	[A]	15	15
Alternating voltage	[V AC]	48	48
Direct voltage	[V DC]	74	74
Special properties		Shielding of connector housing is via pinblock, electric circuits (signal & power) are galvanically separated.	Shielding of connector housing is via pinblock, electric circuits (signal & power) are galvanically separated.

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

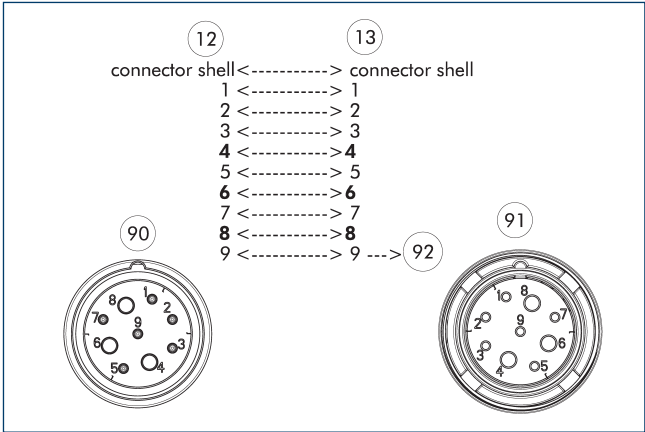
Combination COB P2-K and COB P2-A



12 Master side

13 Adapter side

Pin assignment for COB P2-K and COB P2-A



12 Master side

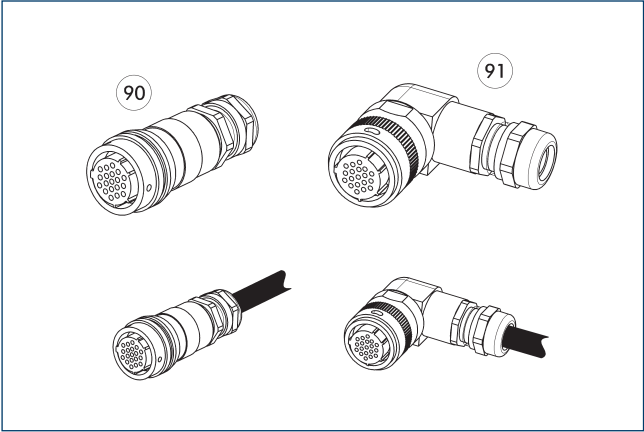
13 Adapter side

90 M23 connector, 9-pin

91 M23 socket, 9-pin

92 leading pin

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Angled cable connector		
KAS-REP10-K-90	30081323	
Straight cable connector		
KAS-REP10-A-0	1644046	

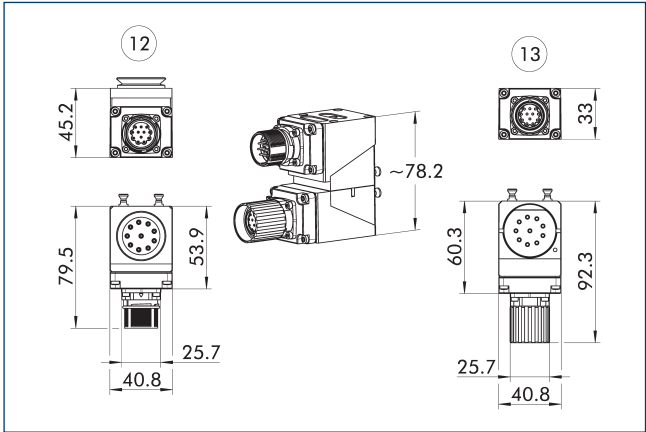


Technical data

Description		COB P3-K	COB P3-A
ID		1607012	1607014
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Servo	Servo
Weight	[kg]	0.17	0.17
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		9	9
Nominal current	[A]	3.5	3.5
Alternating voltage	[V AC]	160	160
Direct voltage	[V DC]	160	160
Electrical connection		M23 connector, 12-pin	M23 socket, 12-pin
Outlet connection		radial	radial
Special properties		Four twisted wire pairs, shielding of connector housing is via pinblock.	Four twisted wire pairs, shielding of connector housing is via pinblock.

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

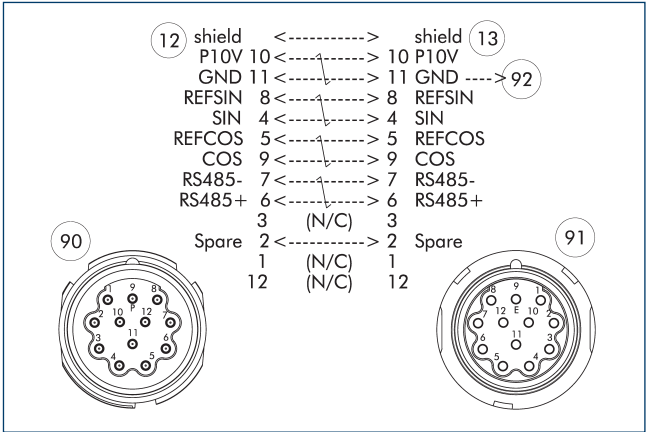
Combination COB P3-K and COB P3-A



12 Master side

13 Adapter side

Pin assignment for COB P3-K and COB P3-A



12 Master side

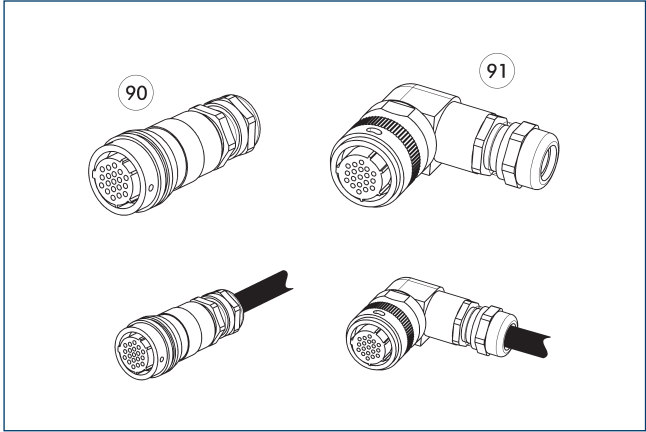
13 Adapter side

90 JAE interface

91 JAE interface

92 leading pin

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Straight cable connector		
KAS-12G-A-0	1344402	
KAS-12G-K-0	1344401	

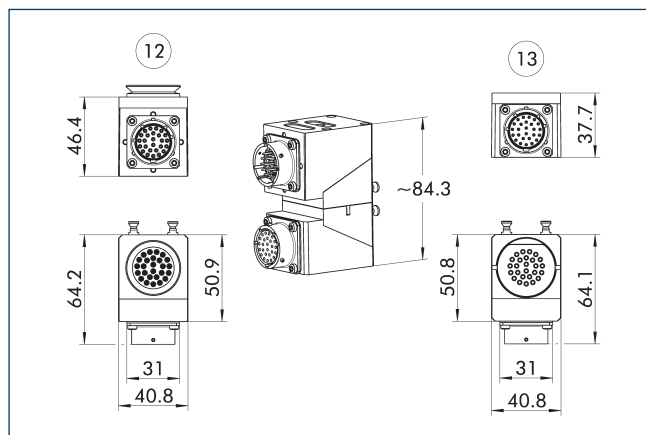


Technical data

Description		COB P4-K	COB P4S-K	COB P4-A	COB P4C-A
ID		1607017	1607018	1607019	1607020
Suitable on		Change head	Change head	Tool	Tool
Screw connection diagram		B	B	B	B
Transmission type		Signal	Signal	Signal	Signal
Weight	[kg]	0.15	0.15	0.15	0.15
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		26	22	26	21
Nominal current	[A]	3	3	3	3
Alternating voltage	[V AC]	250	250	250	250
Direct voltage	[V DC]	250	250	250	250
Electrical connection		Amphenol PT bayonet lock connector, 26 pins	Amphenol PT bayonet lock connector, 26 pins	Amphenol PT bayonet lock socket, 26 pins	Amphenol PT bayonet lock socket, 26 pins
Outlet connection		radial	radial	radial	radial
Special properties			Two sockets (A-coded, 3-pin) integrated in the module housing for connection of locking and unlocking sensor.		Rotary encoder switch for tool coding for 0-31 tools. Designed for max. 0.15 A and 24 V.

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

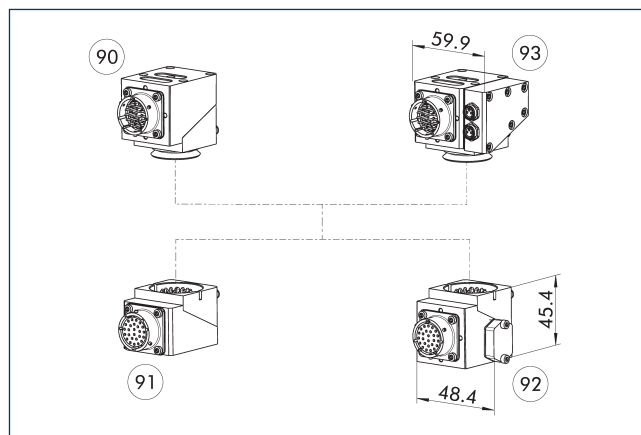
Combination COB P4-K and COB P4-A



12 Master side

13 Adapter side

Combination possibilities P4



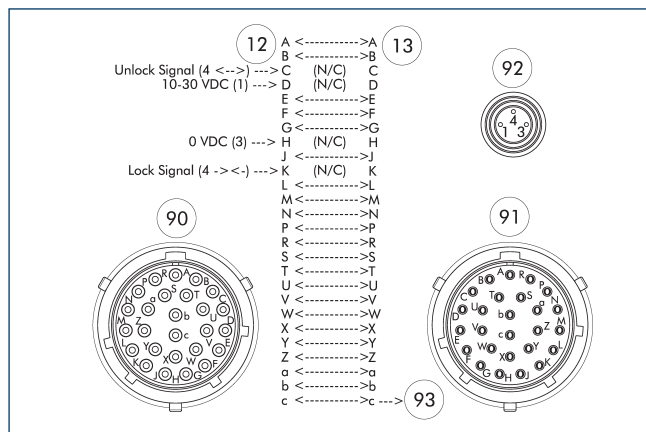
90 COB P4-K

91 COB P4-A

92 COB P4C-A

93 COB P4S-K

Pin assignment for COB P4S-K and COB P4-A



12 Master side

13 Adapter side

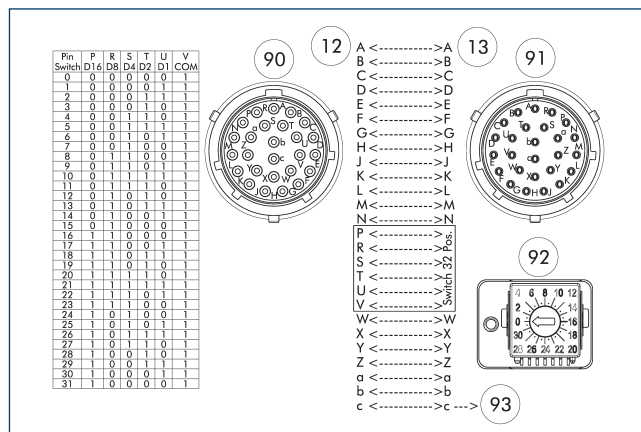
90 Amphenol PT bayonet lock connector, 26 pins

91 Amphenol PT bayonet lock socket, 26 pins

92 M8 socket, A-coded, 3-pin

93 leading pin

Pin assignment for COB P4-K and COB P4C-A



12 Master side

13 Adapter side

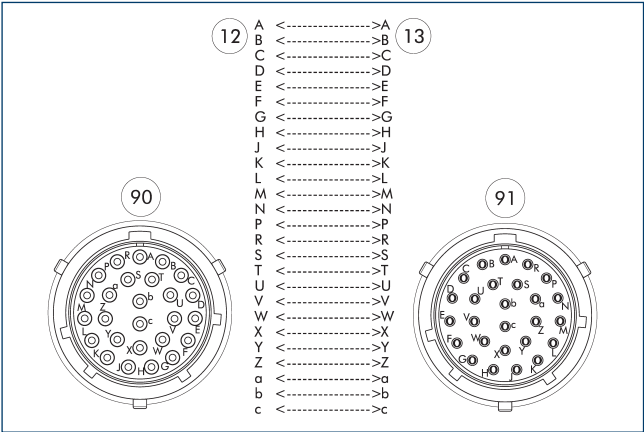
90 Amphenol PT bayonet lock connector, 26 pins

91 Amphenol PT bayonet lock socket, 26 pins

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

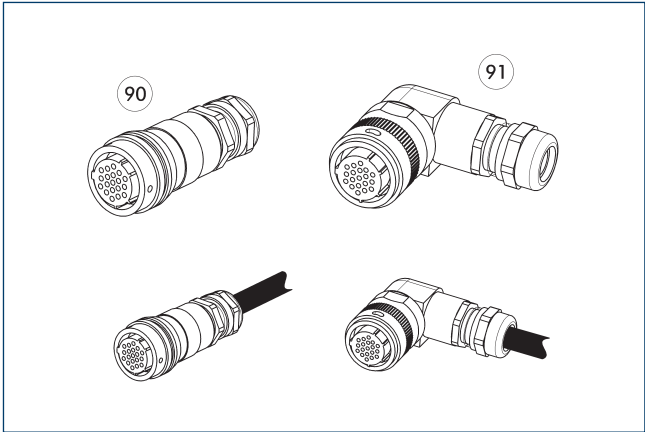
93 leading pin

Pin assignment for COB P4-K and COB P4-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 26 pins
- 91 Amphenol PT bayonet lock socket, 26 pins

Cable plug/cable extension



- 90 Plug/socket straight
- 91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Angled cable connector, robot-side		
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-26B-A-90-C	0301297	
Straight cable connector, robot-side		
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-26B-A-0-C	0301291	

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

COB S12R

Feed-through modules

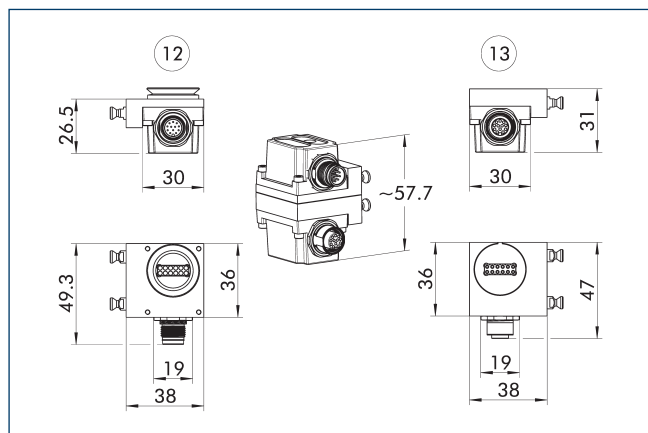


Technical data

Description		COB S12R-K	COB S12R-A	COB S12RC-A
ID		1586455	1586428	1586450
Suitable on		Change head	Tool	Tool
Screw connection diagram		B	B	B
Transmission type		Signal	Signal	Signal
Weight	[kg]	0.054	0.057	0.077
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)
Number of pin contacts		12	12	7
Nominal current	[A]	1.5	1.5	1.5
Direct voltage	[V DC]	30	30	30
Electrical connection		M12 plug, 12-pin	M12 socket, 12-pin	M12 socket, 12-pin
Outlet connection		tangential (right)	tangential (right)	tangential (right)
Special properties				Rotary encoder switch for tool coding of 0 – 15 tools. Designed for max. 0.15 A and 24 V.

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

Combination COB S12R-K and COB S12R-A

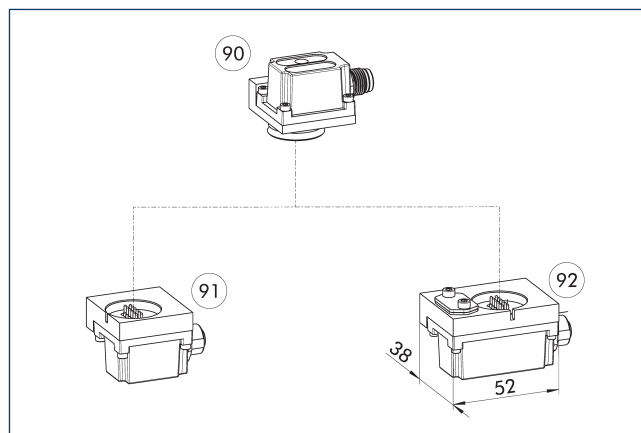


12 Master side

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. Please note that the two variants cannot be combined.

Combination possibilities S12R

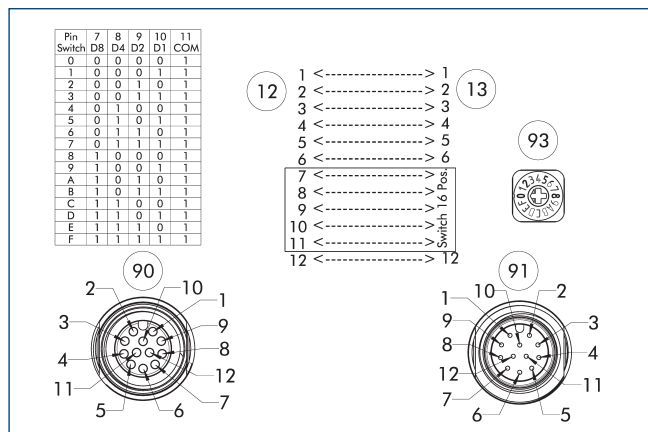


90 COB S12R-K

92 COB S12RC-A

91 COB S12R-A

Pin assignment for COB S12-K with COB S12C-A



12 Master side

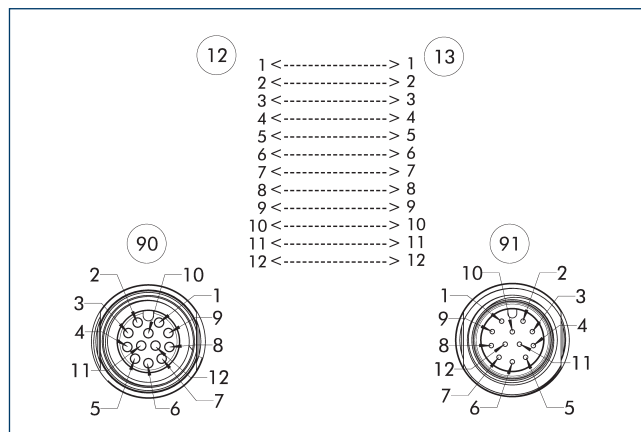
13 Adapter side

90 M12 plug, 12-pin

91 M12 socket, 12-pin

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

Pin assignment for COB S12-K with COB S12-A



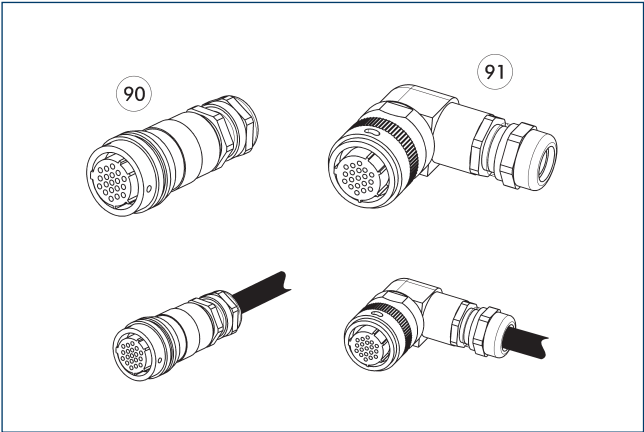
12 Master side

13 Adapter side

90 M12 plug, 12-pin

91 M12 socket, 12-pin

Cable plug/cable extension



90 Plug/socket straight 91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Connection cables		
KA BG12-L 12AP-1000	1627599	
KA SG12-L 12AP-0200	1627611	
Angled cable connector		
KBU-M12-W 12AP	1628044	
KST-M12-W 12AP	1628048	
Straight cable connector		
KBU-M12-G 12AP	1628046	
KST-M12-G 12AP	9962601	
Cable extension		
KA BW12-L 12AP-1000	1627610	
KA SW12-L 12AP-0200	1627612	

COB S12L

Feed-through modules

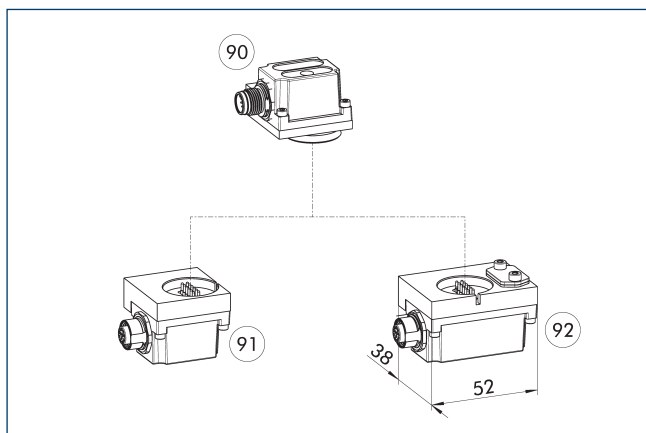


Technical data

Description		COB S12L-K	COB S12L-A	COB S12LC-A
ID		1586427	1586421	1586424
Suitable on		Change head	Tool	Tool
Screw connection diagram		B	B	B
Transmission type		Signal	Signal	Signal
Weight	[kg]	0.054	0.057	0.077
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)
Number of pin contacts		12	12	7
Nominal current	[A]	1.5	1.5	1.5
Direct voltage	[V DC]	30	30	30
Electrical connection		M12 plug, 12-pin	M12 socket, 12-pin	M12 socket, 12-pin
Outlet connection		tangential (left)	tangential (left)	tangential (left)
Special properties				Rotary encoder switch for tool coding of 0 – 15 tools. Designed for max. 0.15 A and 24 V.

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

Combination possibilities S12L

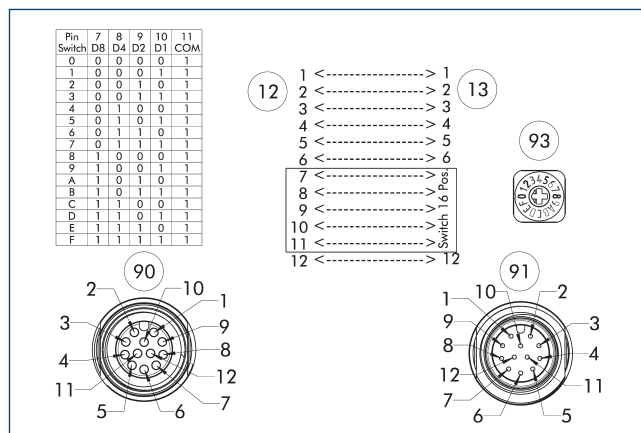


90 COB S12L-K

92 COB S12LC-K

91 COB S12L-A

Pin assignment for COB S12-K with COB S12C-A



12 Master side

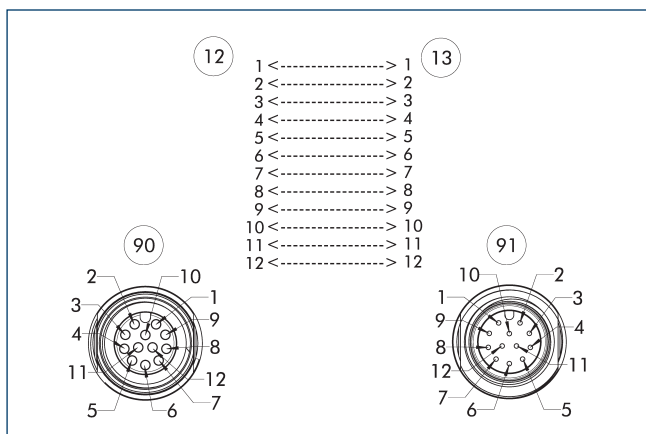
13 Adapter side

90 M12 plug, 12-pin

91 M12 socket, 12-pin

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

Pin assignment for COB S12-K with COB S12-A



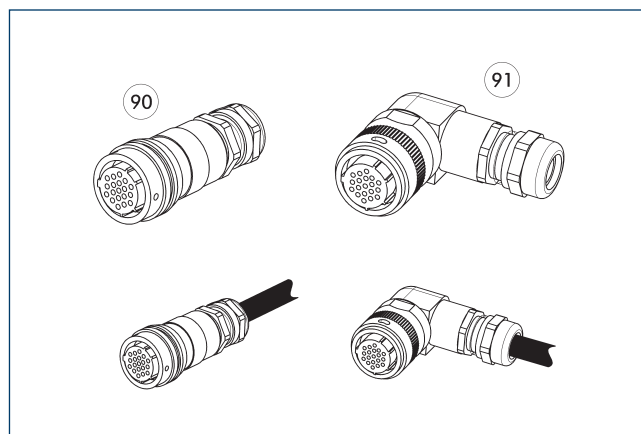
12 Master side

13 Adapter side

90 M12 plug, 12-pin

91 M12 socket, 12-pin

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	
Connection cables		
KA BG12-L 12AP-1000	1627599	
KA SG12-L 12AP-0200	1627611	
Angled cable connector		
KBU-M12-W 12AP	1628044	
KST-M12-W 12AP	1628048	
Straight cable connector		
KBU-M12-G 12AP	1628046	
KST-M12-G 12AP	9962601	
Cable extension		
KA BW12-L 12AP-1000	1627610	
KA SW12-L 12AP-0200	1627612	

COB V1A

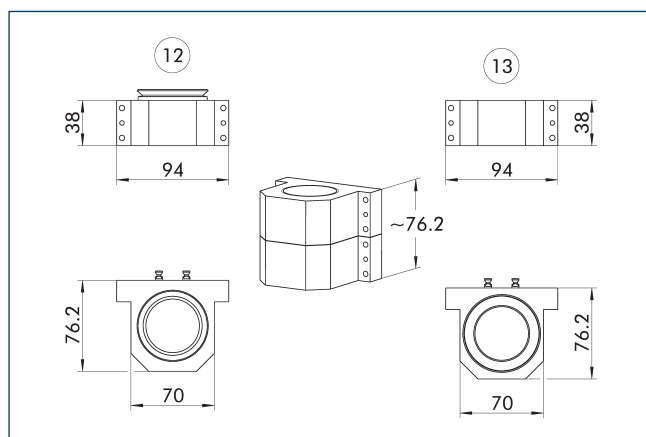
Feed-through modules



Technical data

Description		COB V1A-K	COB V1A-A
ID		1604606	1604610
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Vacuum	Vacuum
Weight	[kg]	0.42	0.38
Min./max. ambient temperature	[°C]	5/60	5/60
Outlet connection		axial	axial
No. of fluid feed-throughs		1x G3/2"	1x G3/2"
Type of medium		Vacuum	Vacuum
Max. volumetric flow per fluid feed-through		G3/2"	G3/2"

Combination COB V1A-K and COB V1A-A

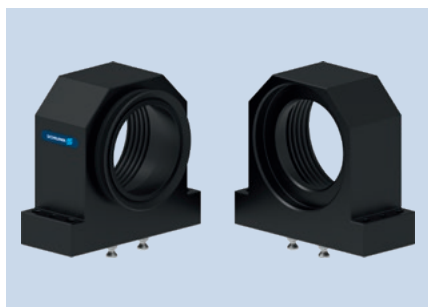


⑫ Master side

⑬ Adapter side

COB V2A

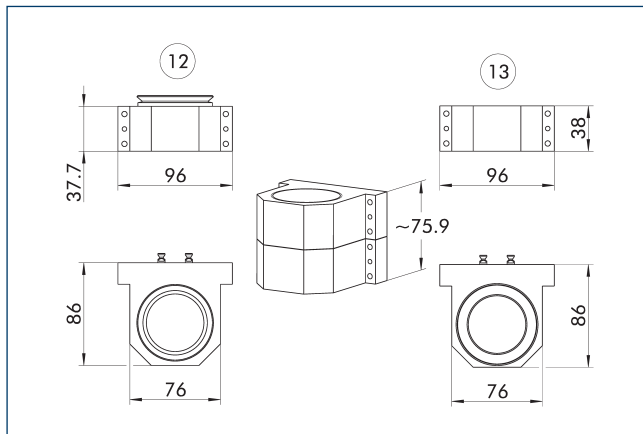
Feed-through modules



Technical data

Description		COB V2A-K	COB V2A-A
ID		1604611	1604612
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Vacuum	Vacuum
Weight	[kg]	0.44	0.42
Min./max. ambient temperature	[°C]	5/60	5/60
Outlet connection		axial	axial
No. of fluid feed-throughs		1x G2"	1x G2"
Type of medium		Vacuum	Vacuum
Max. volumetric flow per fluid feed-through		G2"	G2"

Combination COB V2A-K and COB V2A-A

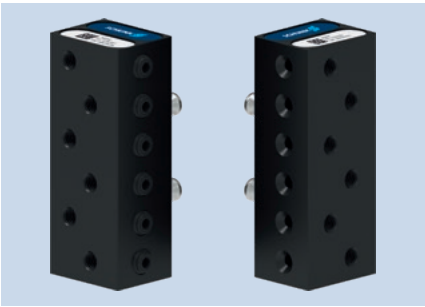


⑫ Master side

⑬ Adapter side

COB A6M5

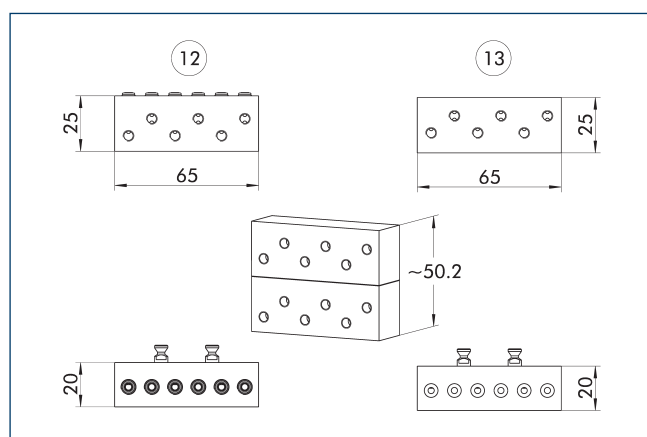
Feed-through modules



Technical data

Description		COB A6M5-K	COB A6M5-A
ID		1586373	1586371
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Pneumatics	Pneumatics
Weight	[kg]	0.09	0.09
Min./max. ambient temperature	[°C]	5/60	5/60
Outlet connection		radial	radial
No. of fluid feed-throughs		6x M5	6x M5
Type of medium		Air, vacuum	Air, vacuum
Max. volumetric flow per fluid feed-through		150 l/min (M5)	150 l/min (M5)
Max. operating pressure	[bar]	8	8

Combination COB A6M5-K and COB A6M5-A



⑫ Master side

⑬ Adapter side

COB A6M5A

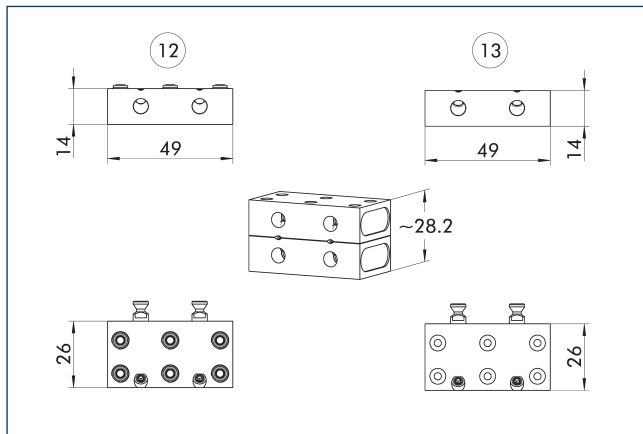
Feed-through modules



Technical data

Description		COB A6M5A-K	COB A6M5A-A
ID		1586372	1586103
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Pneumatics	Pneumatics
Weight	[kg]	0.05	0.05
Min./max. ambient temperature	[°C]	5/60	5/60
Outlet connection		axial	axial
No. of fluid feed-throughs		6x M5	6x M5
Type of medium		Air, vacuum	Air, vacuum
Max. volumetric flow per fluid feed-through		150 l/min (M5)	150 l/min (M5)
Max. operating pressure	[bar]	8	8

Combination of COB A6M5A-K and COB A6M5A-A

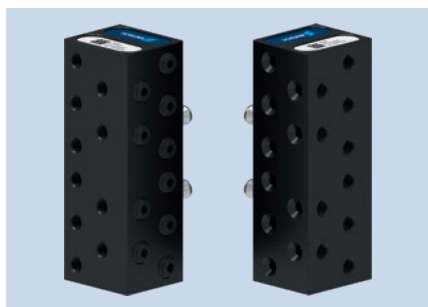


⑫ Master side

⑬ Adapter side

COB A10M5

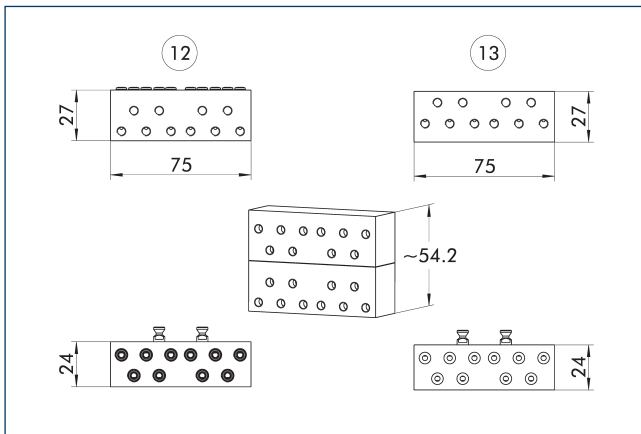
Feed-through modules



Technical data

Description		COB A10M5-K	COB A10M5-A
ID		1586357	1586141
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Pneumatics	Pneumatics
Weight	[kg]	0.13	0.13
Min./max. ambient temperature	[°C]	5/60	5/60
Outlet connection		radial	radial
No. of fluid feed-throughs		10x M5	10x M5
Type of medium		Air, vacuum	Air, vacuum
Max. volumetric flow per fluid feed-through		150 l/min (M5)	150 l/min (M5)
Max. operating pressure	[bar]	8	8

Combination COB A10M5-K and COB A10M5-A

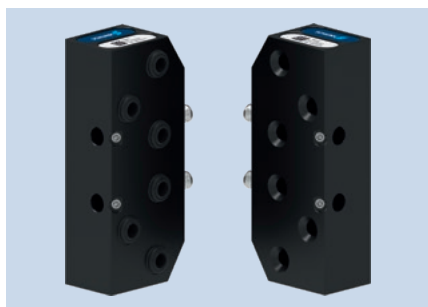


⑫ Master side

⑬ Adapter side

COB A618A

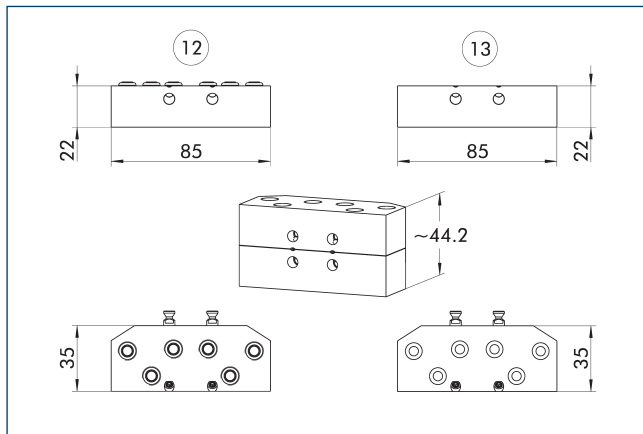
Feed-through modules



Technical data

Description		COB A618A-K	COB A618A-A
ID		1586359	1586358
Suitable on		Change head	Tool
Screw connection diagram		B	B
Transmission type		Pneumatics	Pneumatics
Weight	[kg]	0.17	0.17
Min./max. ambient temperature	[°C]	5/60	5/60
Outlet connection		axial	axial
No. of fluid feed-throughs		6x G1/8"	6x G1/8"
Type of medium		Air, vacuum	Air, vacuum
Max. volumetric flow per fluid feed-through		650 l/min (G1/8")	650 l/min (G1/8")
Max. operating pressure	[bar]	8	8

Combination COB A618A-K and COB A618A-A



12 Master side

13 Adapter side



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