



Superior Clamping and Gripping



Product data sheet

Electric feed-through module SW0-E

SWO-E

Electric feed-through module

Robust. Reliable. Flexible.

Optional modules SWO-E

Optional modules for feeding through various electrical signals and electrical current for SCHUNK quick-change systems

Field of application

Can be used universally wherever short change-over times between a handling device and a tool (gripper, pallet, welding gun) are required

Advantages – Your benefits

Fits perfectly for simple combination with SCHUNK change systems

Wide range of different variants for feeding through of various electric and fluid media

Module variety the suitable module for any size of SCHUNK change systems

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 change system

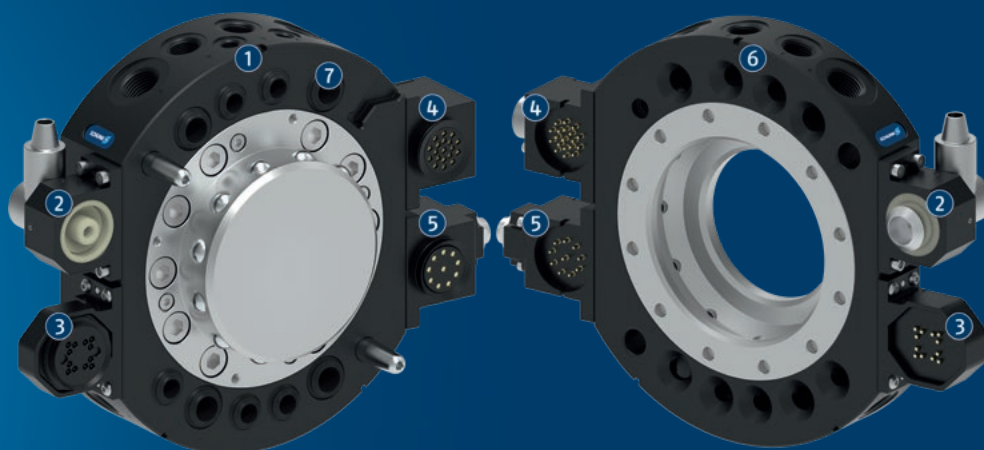
Minimum wear for a high number of change cycles and a long service life

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 **Quick-change master SWK 160**
with lock monitoring, optionally
with presence monitoring
- ② **SWO-PG3**
Optional module for transmission
of high currents
- ③ **SWO-GB8**
Optional module for transmission
of EtherNet/Gigabit communication
- ④ **SWO-R19W**
Optional module for transmission
of electrical, digital signals
- ⑤ **SWO-RE5**
Optional module for transmission
of EtherNet-based fieldbus
communication
- ⑥ **Quick-change adapter SWA 160**
- ⑦ **Integrated air feed-through with
radial connections**
for pneumatic supply of customer
tools

SCHUNK offers more ...

The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



Quick change system



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.

Overview of electrical modules and mounting pattern

	SWO-E	S1	S5	S7	K	J
Electric modules for						
Signal						
Power						
Servo						
Communication						
Welding						
S1 screw connection diagram suitable for						
SWS 001						
S5 screw connection diagram suitable for						
SWS 005						
SHS 040						
SHS 050 with adapter plate						
S7 screw connection diagram suitable for						
SWS 007						
SWS 011						
K screw connection diagram suitable for						
SWS 020						
SWS 021 side A						
SWS 060 side A						
SHS 063						
SHS 080 with adapter plate						
J screw connection diagram suitable for						
SWS 021 side B with adapter plate						
SWS 040Q						
SWS 041						
SWS 046						
SWS 060 side B with adapter plate						
SWS 071						
SWS 076						
SWS 110						
SWS 160						
SHS 100						
SHS 125						

Special designs with modified seals or lubrication are available on request

SWO-E A15

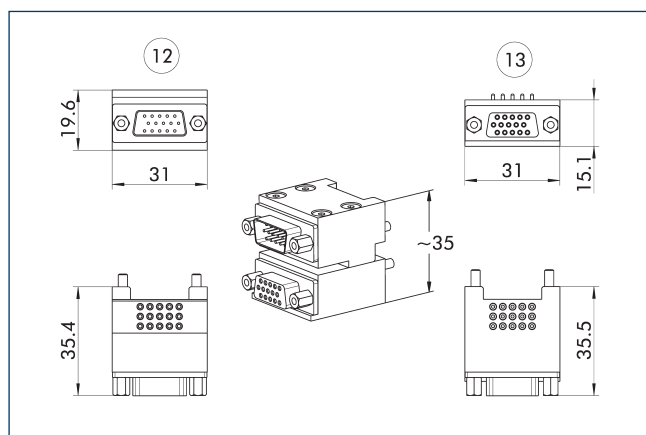
Electric feed-through module



Technical data

Description		SWO-A15-K	SWO-A15-A
ID		9936357	9936356
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		S7	S7
Transmission type		Signal	Signal
Weight	[kg]	0.02	0.02
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		15	15
Nominal current	[A]	3	3
Nominal voltage	[V AC]	50/-	50/-
Electrical connection		D-sub connecting plug	D-sub connector
Electrical connection outlet		radial	radial
Special properties		-	-

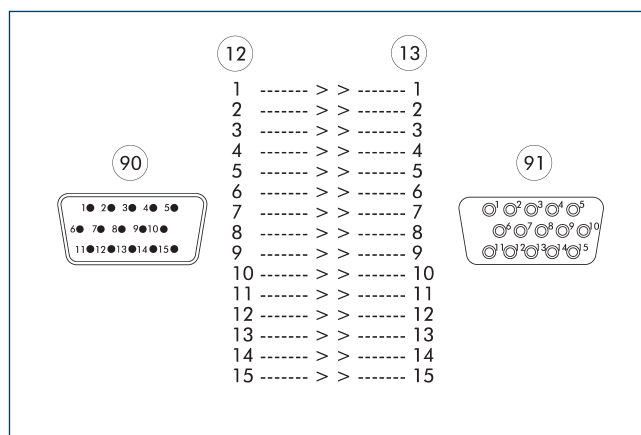
Combination SW0-A15-K and SW0-A15-A



12 Master side

13 Adapter side

Pin assignment for SW0-A15-K and SW0-A15-A



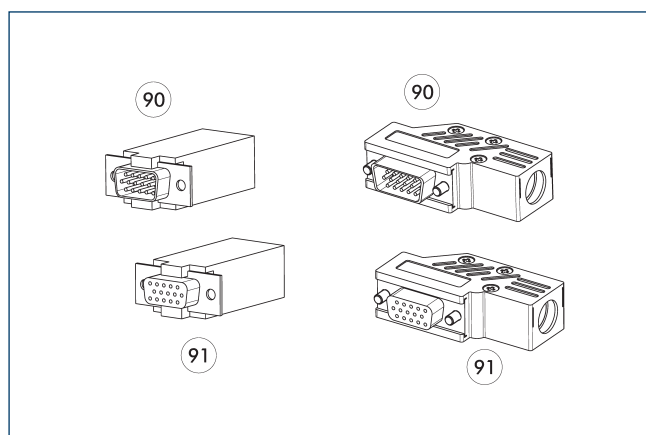
12 Master side

13 Adapter side

90 D-sub connecting plug

91 D-sub connector

Cable connector



90 D-sub connecting plug

91 D-sub connector

Description	ID
Angled cable connector, robot-side	
KAS-A15-K-90	0301301
Angled cable connector, tool-side	
KAS-A15-A-90	0301302
Straight cable connector, robot-side	
KAS-A15-K-0	0301264
Straight cable connector, tool-side	
KAS-A15-A-0	0301265

① For more detailed information and other cable connectors, see catalog chapter "SW0" or visit our website.

SWO-E B15

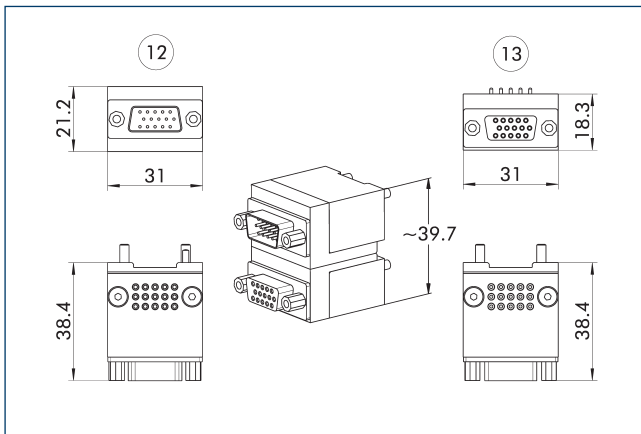
Electric feed-through module



Technical data

Description		SWO-B15-K	SWO-B15-A
ID		9937326	9937327
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		S5	S5
Transmission type		Signal	Signal
Weight	[kg]	0.02	0.02
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		15	15
Nominal current	[A]	3	3
Nominal voltage	[V AC]	50/-	50/-
Electrical connection		D-sub connecting plug	D-sub connector
Electrical connection outlet		radial	radial
Special properties		-	-

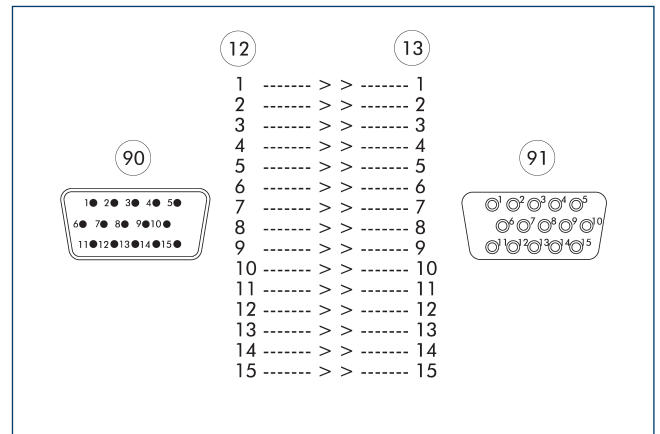
Combination SWO-B15-K and SWO-B15-A



12 Master side

13 Adapter side

Pin assignment for SWO-B15-K and SWO-B15-A



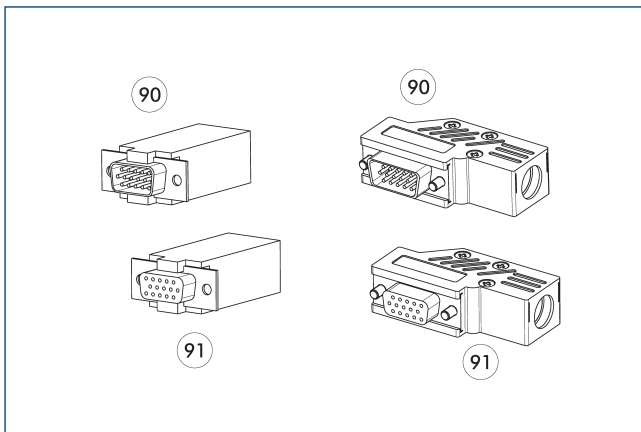
12 Master side

13 Adapter side

90 D-sub connecting plug

91 D-sub connector

Cable connector



90 D-sub connecting plug

91 D-sub connector

Description	ID
Angled cable connector, robot-side	
KAS-A15-K-90	0301301
Angled cable connector, tool-side	
KAS-A15-A-90	0301302
Straight cable connector, robot-side	
KAS-A15-K-0	0301264
Straight cable connector, tool-side	
KAS-A15-A-0	0301265

① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E E04

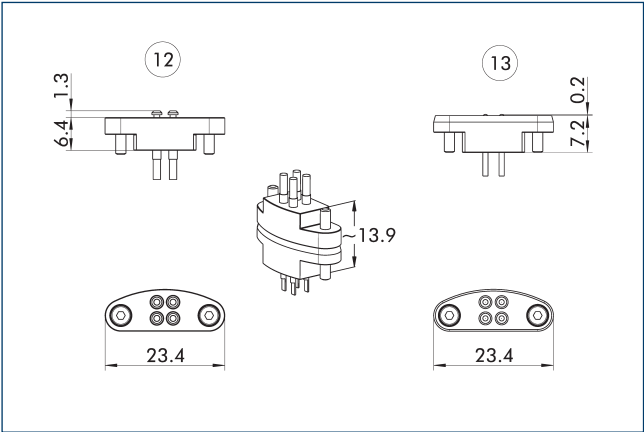
Electric feed-through module



Technical data

Description		SWO-E04-K	SWO-E04-A
ID		9960359	9960360
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		S1	S1
Transmission type		Signal	Signal
Weight	[kg]	0.005	0.005
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		4	4
Nominal current	[A]	3	3
Nominal voltage	[V AC]	50/-	50/-
Electrical connection		Solder contacts	Solder contacts
Electrical connection outlet		axial	axial
Special properties		-	-

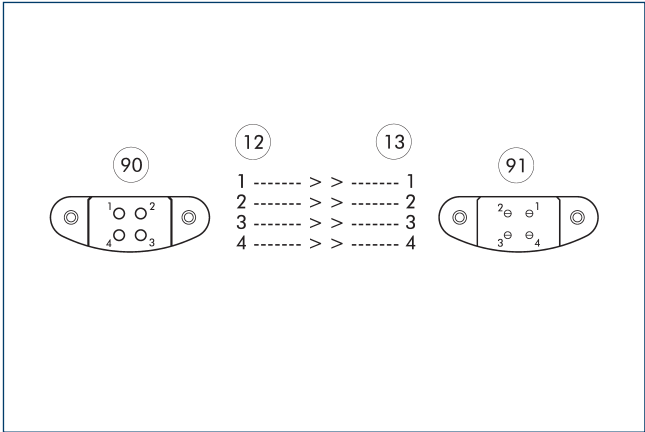
Combination SW0-E04-K and SW0-E04-A



12 Master side

13 Adapter side

Pin assignment for SW0-E04-K and SW0-E04-A



12 Master side

13 Adapter side

90 Solder contacts

91 Solder contacts

SWO-E E06

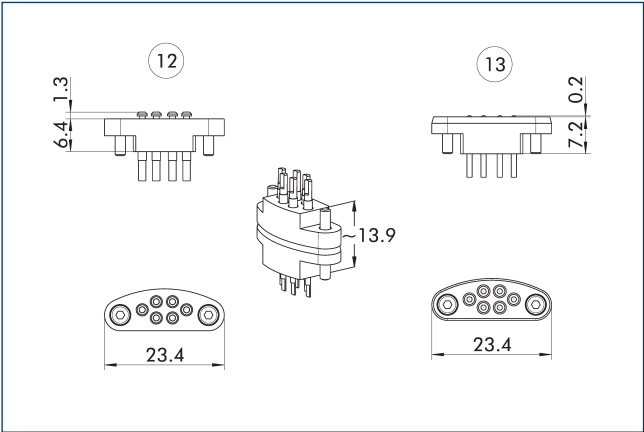
Electric feed-through module



Technical data

Description		SWO-E06-K	SWO-E06-A
ID		9962997	9962998
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		S1	S1
Transmission type		Signal	Signal
Weight	[kg]	0.005	0.005
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		6	6
Nominal current	[A]	3	3
Nominal voltage	[V AC]	50/-	50/-
Electrical connection		Solder contacts	Solder contacts
Electrical connection outlet		axial	axial
Special properties		-	-

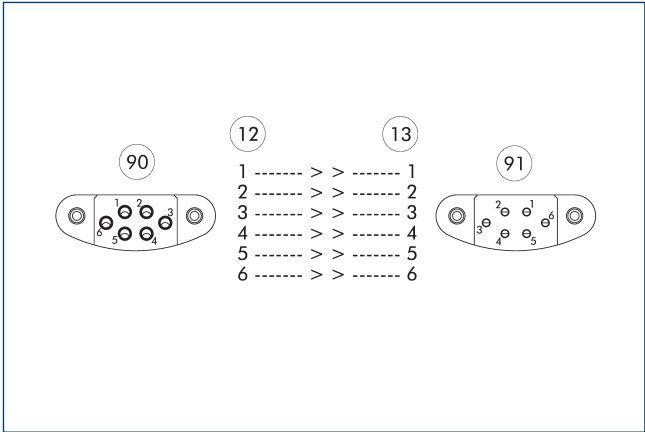
Combination SW0-E06-K and SW0-E06-A



12 Master side

13 Adapter side

Pin assignment for SW0-E06-K and SW0-E06-A



12 Master side

13 Adapter side

90 Solder contacts

91 Solder contacts

SWO-E E10

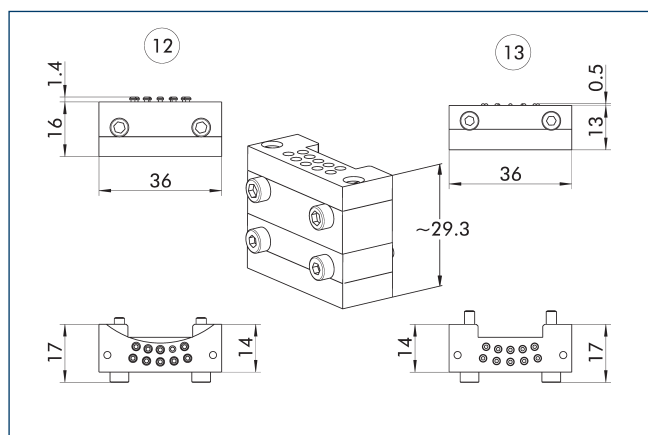
Electric feed-through module



Technical data

Description		SWO-E10-005-K	SWO-E10-011-K	SWO-E10-005-A	SWO-E10-011-A
ID		9935799	9935801	9935800	9935802
Suitable on		Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		S5	S7	S5	S7
Transmission type		Signal	Signal	Signal	Signal
Weight	[kg]	0.009	0.009	0.005	0.008
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60
Number of pin contacts		10	10	10	10
Nominal current	[A]	3	3	3	3
Nominal voltage	[V AC]	50/-	50/-	50/-	50/-
Electrical connection		Solder contacts	Solder contacts	Solder contacts	Solder contacts
Electrical connection outlet		axial	axial	axial	axial
Special properties		-	-	-	-

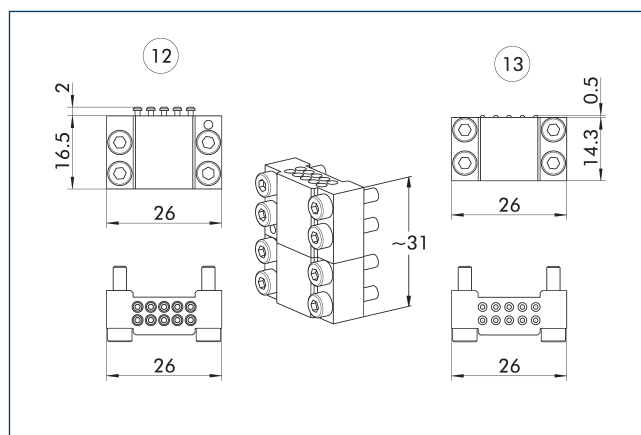
Combination SWO-E10-011-K and SWO-E10-011-A



12 Master side

13 Adapter side

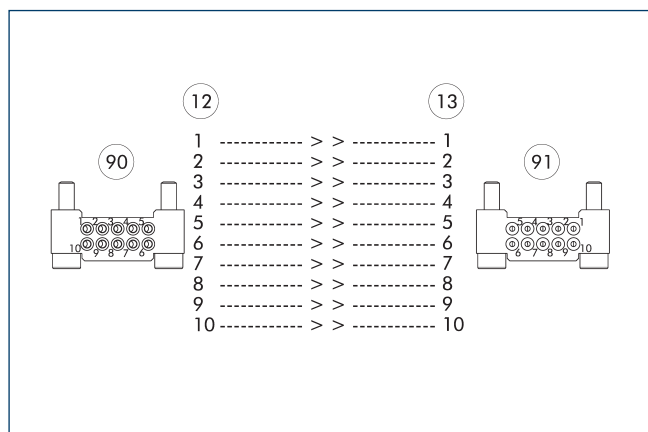
Combination SWO-E10-005-K and SWO-E10-005-A



12 Master side

13 Adapter side

Pin assignment for SWO-E10-K and SWO-E10-A



12 Master side

90 Solder contacts

13 Adapter side

91 Solder contacts

SWO-E E20

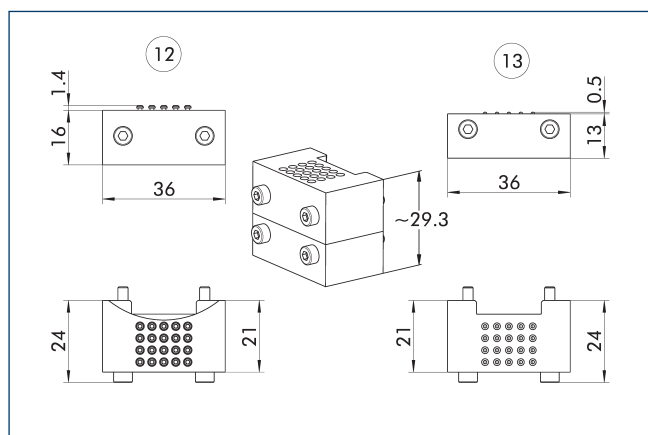
Electric feed-through module



Technical data

Description		SWO-E20-011-K	SWO-E20-011-A
ID		9936525	9936526
Suitable on		Quick-change master	Quick-change master
Screw connection diagram		S7	S7
Transmission type		Signal	Signal
Weight	[kg]	0.015	0.017
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		20	20
Nominal current	[A]	3	3
Nominal voltage	[V AC]	50/-	50/-
Electrical connection		Solder contacts	Solder contacts
Electrical connection outlet		axial	axial
Special properties		-	-

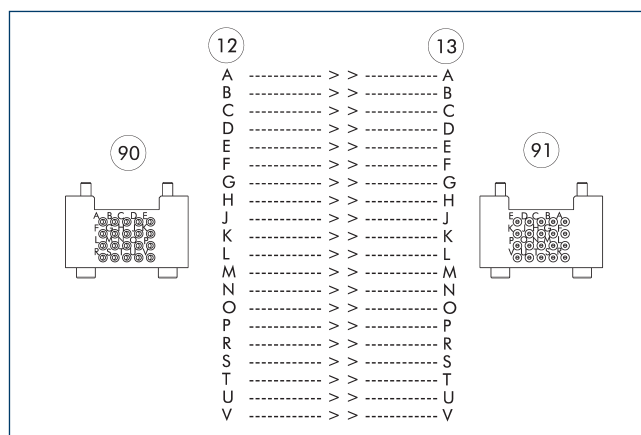
Combination SW0-E10-K and SW0-E10-A



12 Master side

13 Adapter side

Pin assignment for SW0-E20-K and SW0-E20-A



12 Master side

13 Adapter side

90 Solder contacts

91 Solder contacts

SWO-E E2A

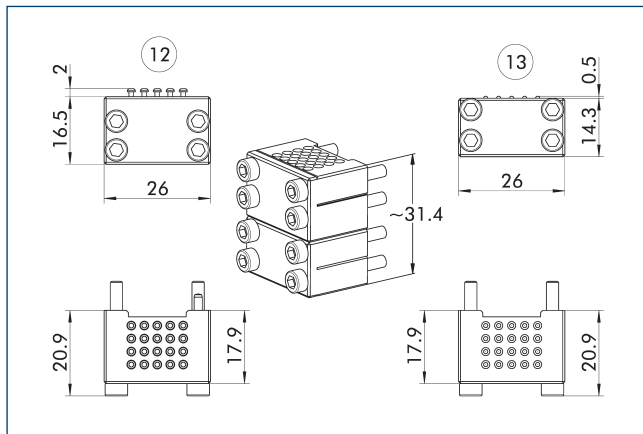
Electric feed-through module



Technical data

Description		SWO-E2A-K	SWO-E2A-A
ID		9941289	9941290
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		S5	S5
Transmission type		Signal	Signal
Weight	[kg]	0.02	0.02
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		20	20
Nominal current	[A]	3	3
Nominal voltage	[V AC]	50/-	50/-
Electrical connection		Solder contacts	Solder contacts
Electrical connection outlet		axial	axial
Special properties		-	-

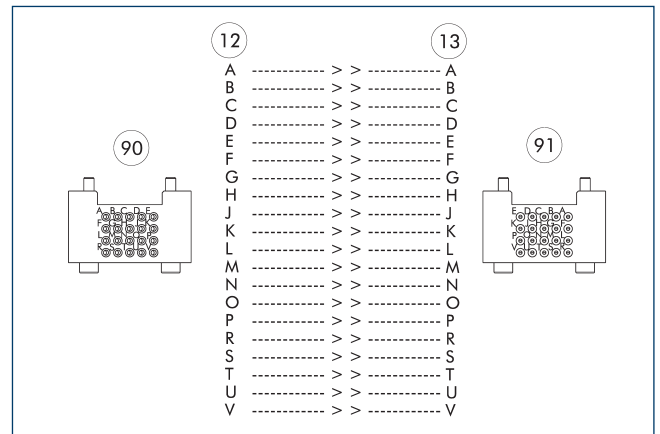
Combination SW0-E2A-K and SW0-E2A-A



12 Master side

13 Adapter side

Pin assignment for SW0-E2A-K and SW0-E2A-A



12 Master side

13 Adapter side

90 Solder contacts

91 Solder contacts

SWO-E E3A

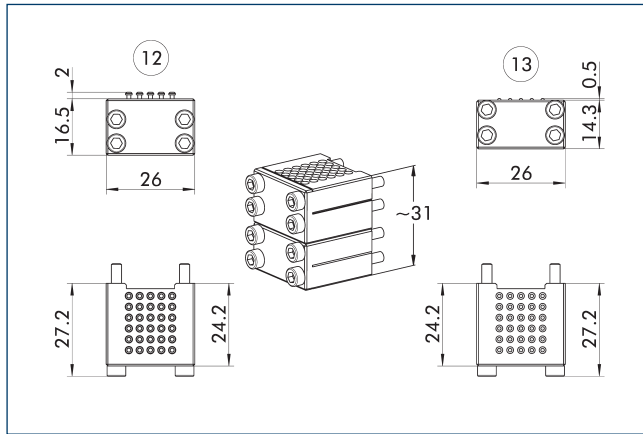
Electric feed-through module



Technical data

Description		SWO-E3A-K	SWO-E3A-A
ID		9941631	9941632
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		S5	S5
Transmission type		Signal	Signal
Weight	[kg]	0.022	0.02
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		30	30
Nominal current	[A]	3	3
Nominal voltage	[V AC]	50/-	50/-
Electrical connection		Solder contacts	Solder contacts
Electrical connection outlet		axial	axial
Special properties		-	-

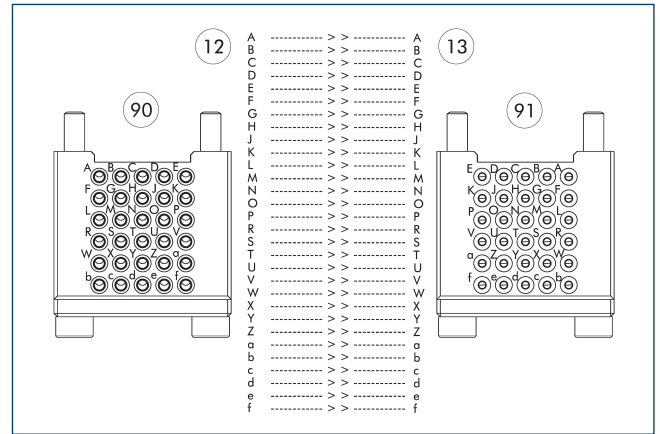
Combination SW0-E3A-K and SW0-E3A-A



12 Master side

13 Adapter side

Pin assignment for SW0-E3A-K and SW0-E3A-A



12 Master side

13 Adapter side

90 Solder contacts

91 Solder contacts

SWO-E EM8

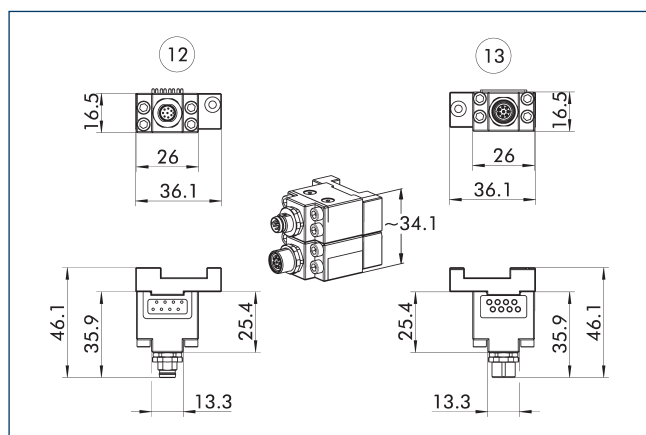
Electric feed-through module



Technical data

Description		SWO-EM8-005-K	SWO-EM8-011-K	SWO-EM8-005-A	SWO-EM8-011-A
ID		9966150	9966153	9966151	9966154
Suitable on		Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		S5	S7	S5	S7
Transmission type		Signal	Signal	Signal	Signal
Weight	[kg]	0.03	0.034	0.03	0.034
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60
Number of pin contacts		8	8	8	8
Nominal current	[A]	1.5	1.5	1.5	1.5
Nominal voltage	[V AC]	30/-	30/-	30/-	30/-
Electrical connection		M8 connector, 8-pin	M8 connector, 8-pin	M8 socket, 8-pin	M8 socket, 8-pin
Electrical connection outlet		radial	radial	radial	radial
Special properties		-	The optional module and the adapter plate for assembly on the quick-change system are included in the scope of delivery.	-	The optional module and the adapter plate for assembly on the quick-change system are included in the scope of delivery.

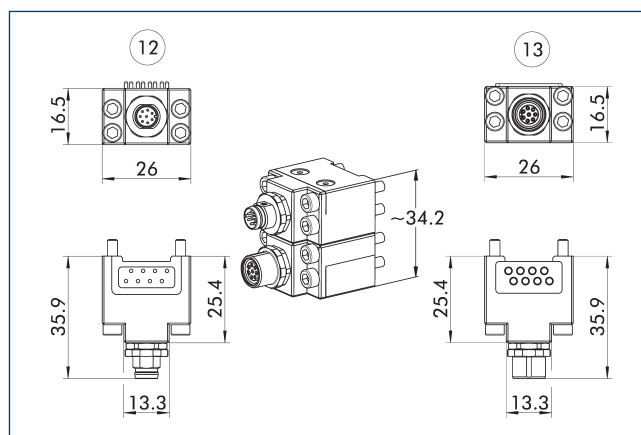
Combination of SWO-EM8-011-K and SWO-EM8-011-A



12 Master side

13 Adapter side

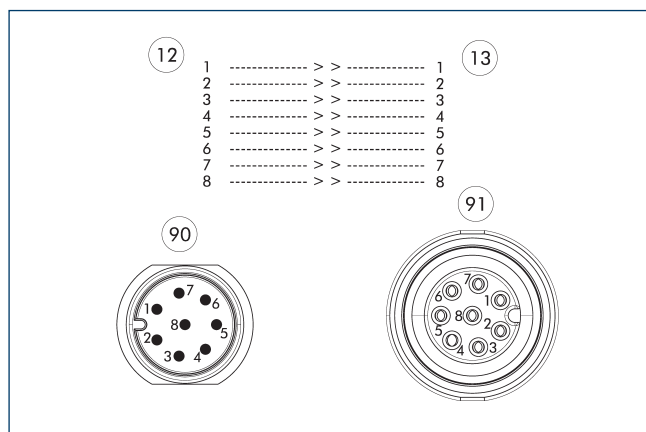
Combination SWO-EM8-005-K and SWO-EM8-005-A



12 Master side

13 Adapter side

Pin assignment for SWO-EM8-K and SWO-EM8-A



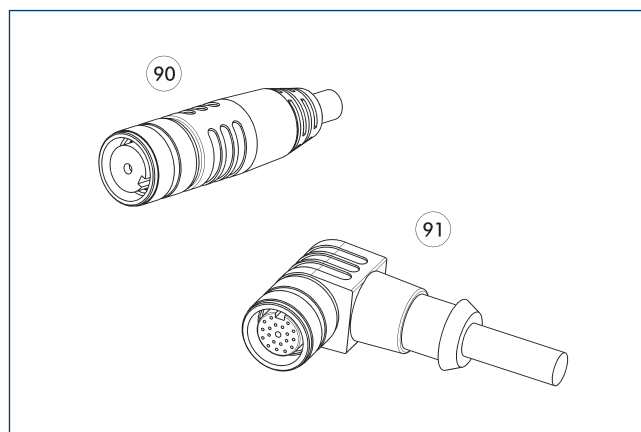
12 Master side

13 Adapter side

90 M8 connector, 8-pin

91 M8 socket, 8-pin

Cable plug/cable extension



90 Connector/straight socket with extension cable

91 Connector/angled socket with extension cable

Description	ID	
Cable extension		
KV-2-SWA-08G-M8-0	0302181	
KV-2-SWA-08G-M8-90	0302183	
KV-5-SWK-08G-M8-0	0302180	
KV-5-SWK-08G-M8-90	0302182	

① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E G19

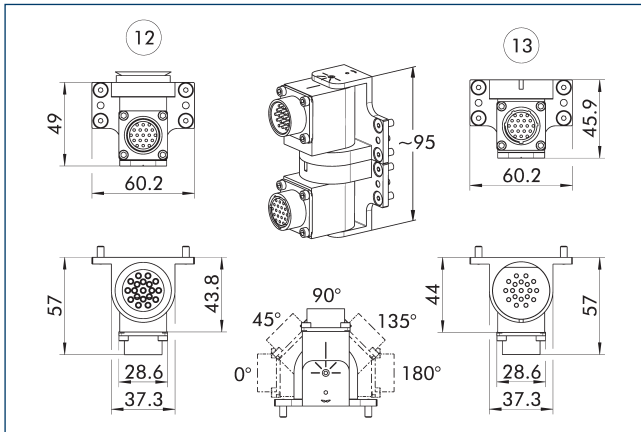
Electric feed-through module



Technical data

Description		SWO-G19-K	SWO-G19R-K	SWO-G19W-K	SWO-G19-A	SWO-G14-A
ID		9940649	9949311	9949312	9940650	9961318
Suitable on		Quick-change master	Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J	J	J
Transmission type		Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.14	0.13	0.12	0.11	0.15
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		19	15	15	19	14
Nominal current	[A]	3	3	3	3	3
Nominal voltage	[V AC]	250/-	250/-	250/-	250/-	250/-
Electrical connection		Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins
Electrical connection outlet		Can be radially swiveled	Can be radially swiveled	Can be radially swiveled	Can be radially swiveled	Can be radially swiveled
Special properties		Can swivel in five positions	Can swivel in five positions, two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Can swivel in five positions, two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Can swivel in five positions	Can be swiveled in five positions, rotary encoder switch for tool coding for 0-16 tools.

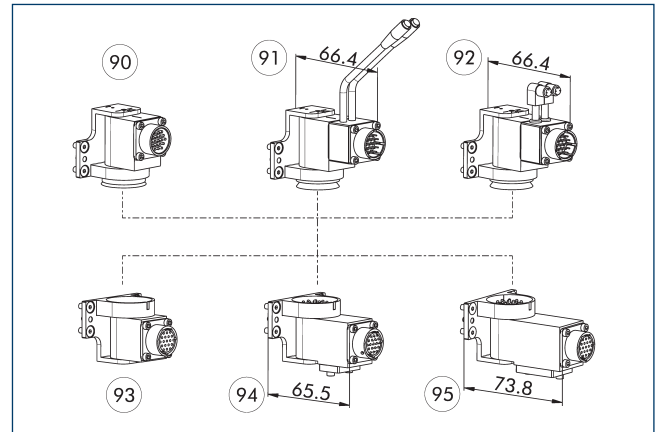
Combination SW0-G19-K and SW0-G19-A



12 Master side

13 Adapter side

Combination possibilities G19



90 SW0-G19-K

91 SW0-G19W-K

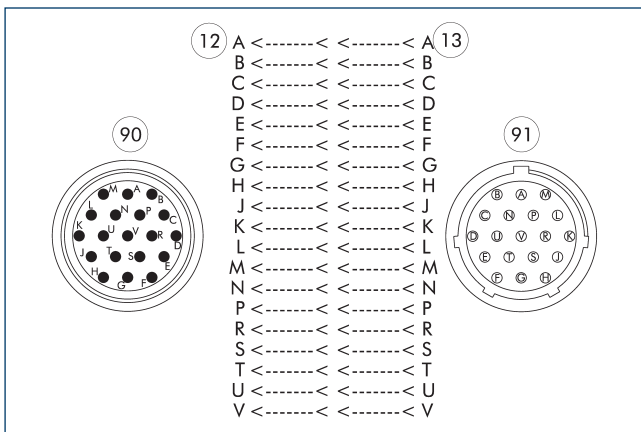
92 SW0-G19R-K

93 SW0-G19-A

94 SW0-G14-A

95 SW0-G10-A

Pin layout for SW0-G19-K with SW0-G19-A



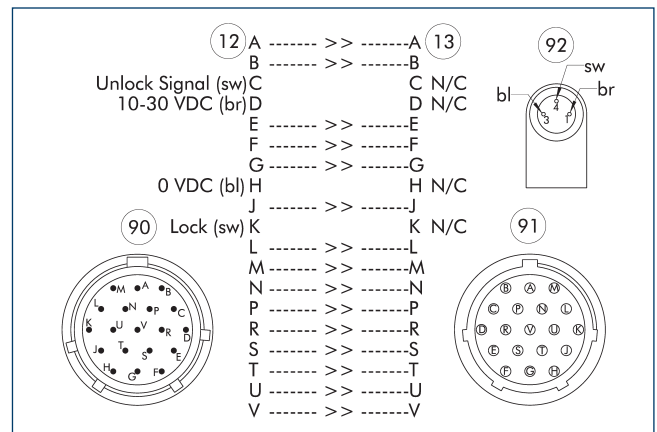
12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

91 Amphenol PT bayonet lock socket, 19 pins

Pin assignment for SW0-G19R-K and SW0-G19-A



12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

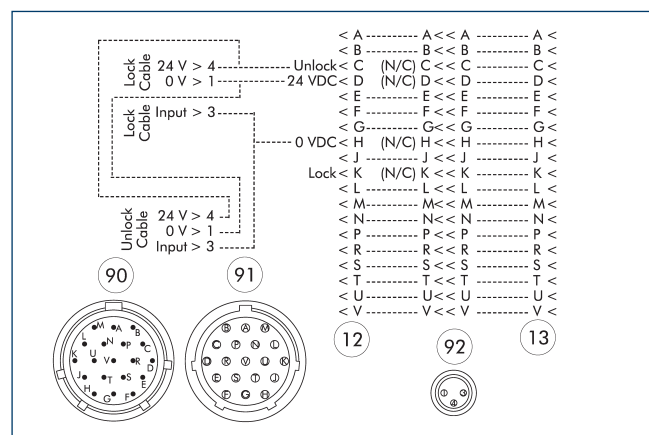
91 Amphenol PT bayonet lock socket, 19 pins

92 M8 socket, A-coded, 3-pin

SWO-E G19

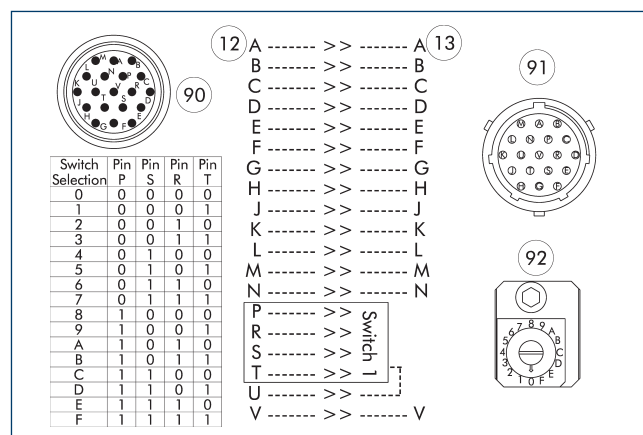
Electric feed-through module

Pin assignment for SWO-G19W-K and SWO-G19-A



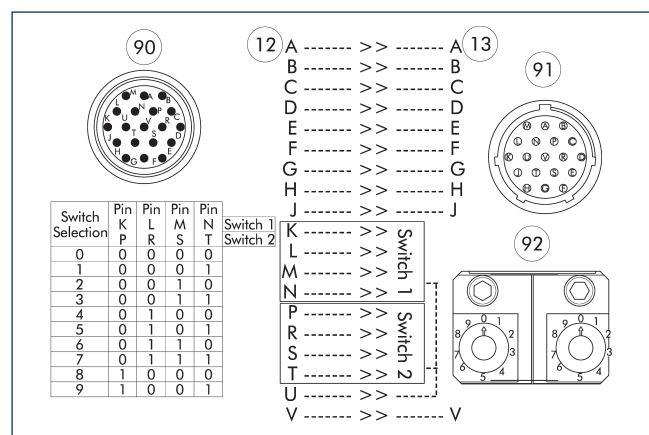
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 M8 socket, A-coded, 3-pin

Pin assignment for SWO-G19-K and SWO-G14-A



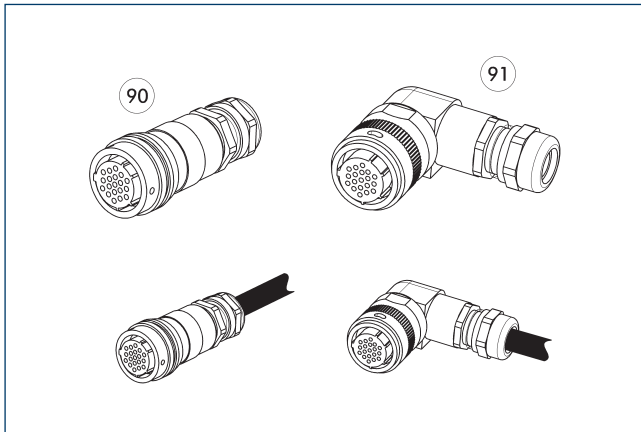
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 Rotary encoder switch for tool coding for 0-16 tools.

Pin assignment for SWO-G19-K and SWO-G10-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 Two rotary encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
Angled cable connector with cable, robot-side		
KV-3-SWK-19B-90	0302179	3
KV-5-SWK-19B-90	0302190	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
Straight cable connector with cable, robot-side		
KV-3-SWK-19B-0	0302176	3
KV-5-SWK-19B-0	0302177	5
Straight cable connector with cable, tool-side		
KV-3-SWA-19B-0	0302178	3

① For more detailed information and other cable connectors, see catalog chapter "SW0" or visit our website.

SWO-E G26

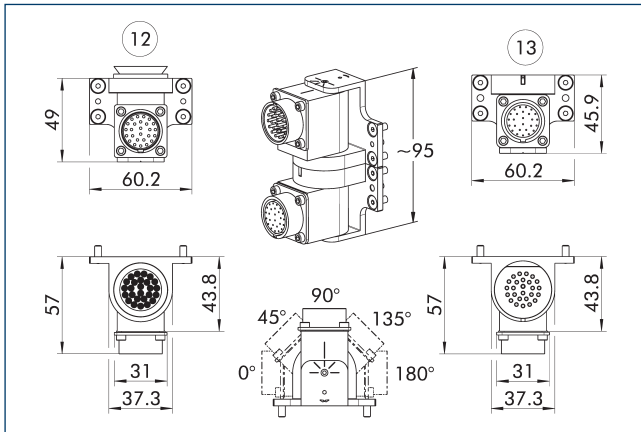
Electric feed-through module



Technical data

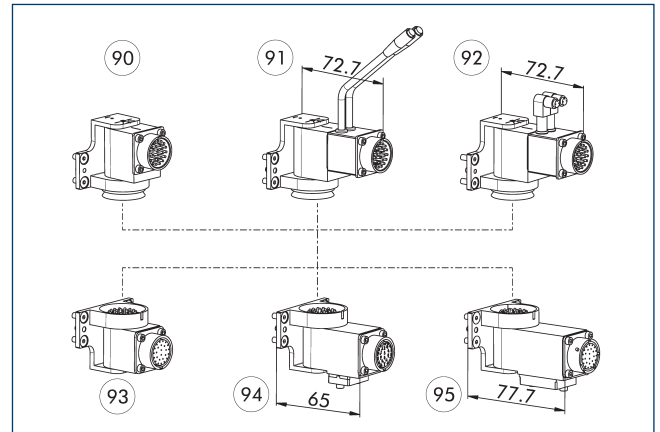
Description		SWO-G26-K	SWO-G26R-K	SWO-G26W-K	SWO-G26-A	SWO-G21-A
ID		9941560	9959953	9956897	9941561	9961305
Suitable on		Quick-change master	Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J	J	J
Transmission type		Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.15	0.2	0.2	0.12	0.15
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		26	22	22	26	21
Nominal current	[A]	3	3	3	3	3
Nominal voltage	[V AC]	250/-	250/-	250/-	250/-	250/-
Electrical connection		Amphenol PT bayonet lock connector, 26 pins	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
Electrical connection outlet		Can be radially swiveled	Can be radially swiveled	Can be radially swiveled	Can be radially swiveled	Can be radially swiveled
Special properties		Can swivel in five positions	Can swivel in five positions, two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Can swivel in five positions, two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Can swivel in five positions	Can be swiveled in five positions, rotary encoder switch for tool coding for 0-15 tools.

Combination SWO-G26-K and SWO-G26-A



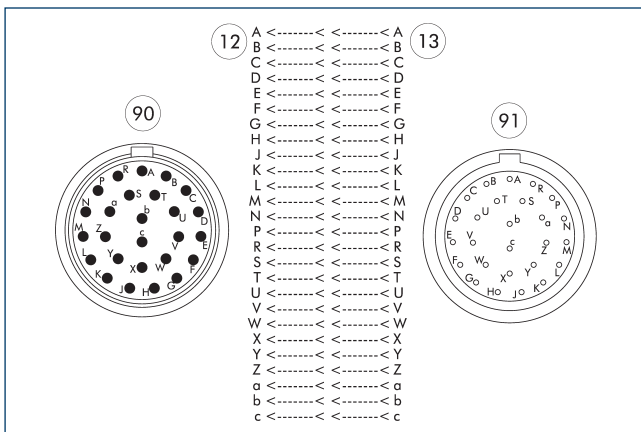
- 12 Master side
13 Adapter side
90 Swiveling plug in 5 positions

Combination possibilities G26



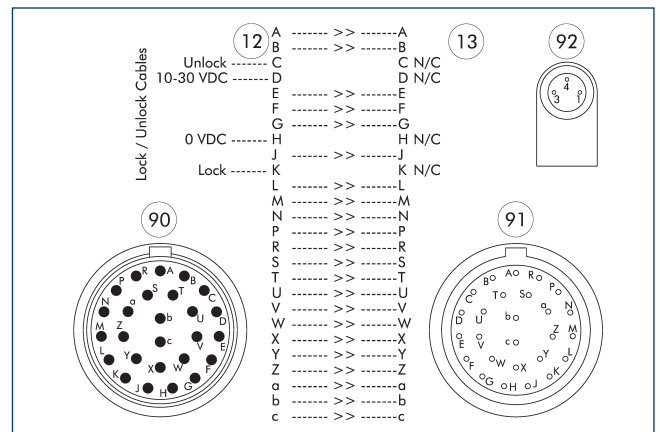
- 90 SWO-G26-K
91 SWO-G26W-K
92 SWO-G26R-K
93 SWO-G26-A
94 SWO-G21-A
95 SWO-G17-A

Pin assignment for SWO-G26-K and SWO-G26-A



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

Pin assignment for SWO-G26R-K and SWO-G26-A

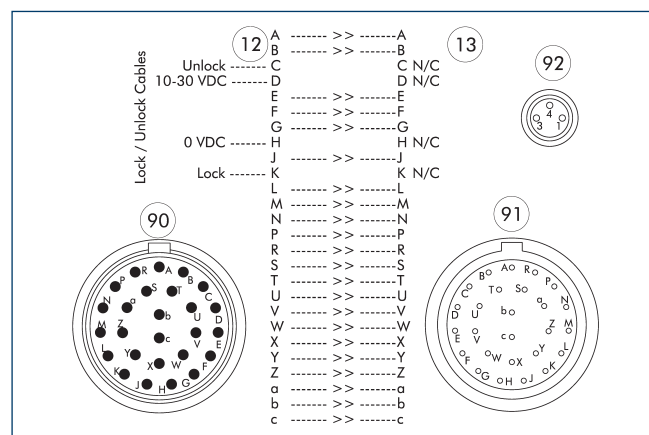


- 12 Master side
13 Adapter side
90 Amphenol PT bayonet lock connector, 26 pins
91 Amphenol PT bayonet lock socket, 26 pins
92 M8 socket, A-coded, 3-pin

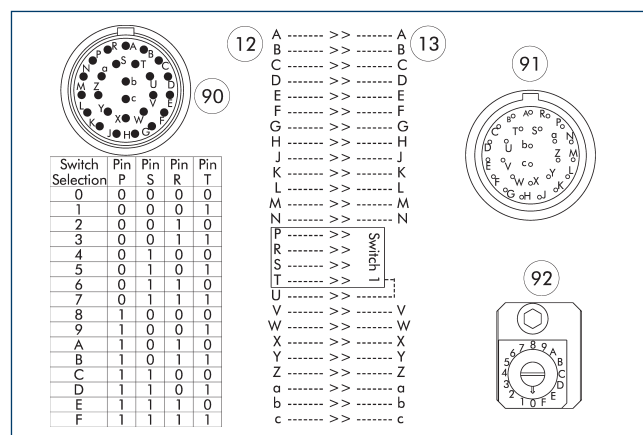
SWO-E G26

Electric feed-through module

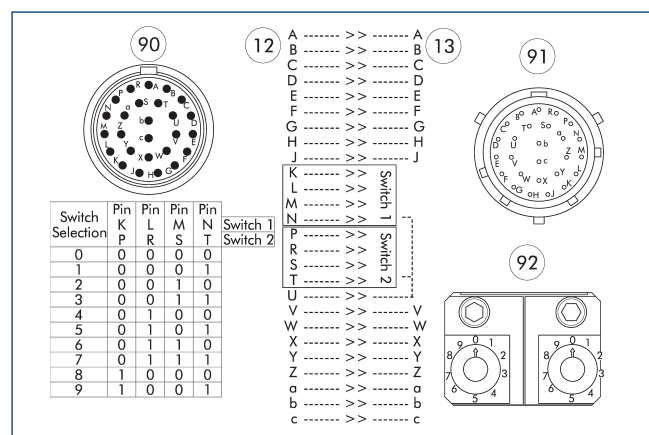
Pin assignment for SWO-G26W-K and SWO-G26-A



Pin assignment for SWO-G26-K and SWO-G21-A

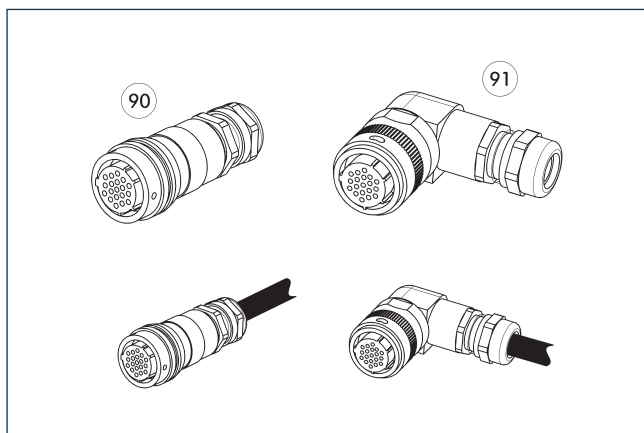


Pin assignment for SWO-G26-K with SWO-G17-A



- 12 Master side
13 Adapter side
90 Amphenol PT bayonet lock connector, 26 pins
91 Amphenol PT bayonet lock socket, 26 pins
92 Two rotary encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-26B-A-0-C	0301291	
Straight cable connector with cable, robot-side		
KV-3-SWK-26B-0	0302192	3
KV-5-SWK-26B-0	0302193	5
Straight cable connector with cable, tool-side		
KV-3-SWA-26B-0	0302184	3

① For more detailed information and other cable connectors, see catalog chapter "SW0" or visit our website.

SWO-E GD4

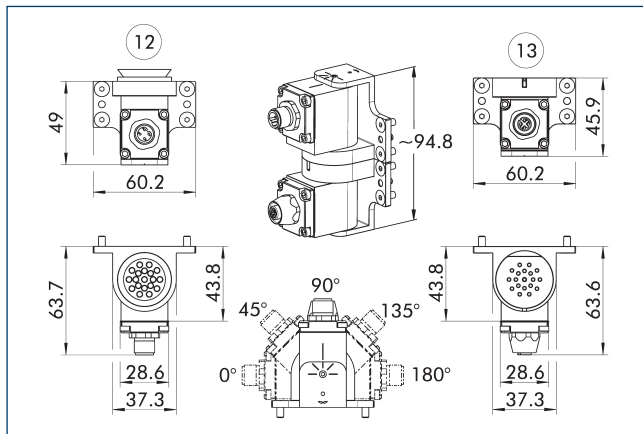
Electric feed-through module



Technical data

Description		SWO-GD4-K	SWO-GD4-A
ID		30088161	30088165
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Signal	Signal
Weight	[kg]	0.15	0.12
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		4	4
Nominal current	[A]	2	2
Nominal voltage	[V AC]	48/-	48/-
Electrical connection		M12 connector, A-coded, 4-pin	M12 socket, A-coded, 4-pin
Electrical connection outlet		Can be radially swiveled	Can be radially swiveled
Special properties		Can swivel in five positions	Can swivel in five positions

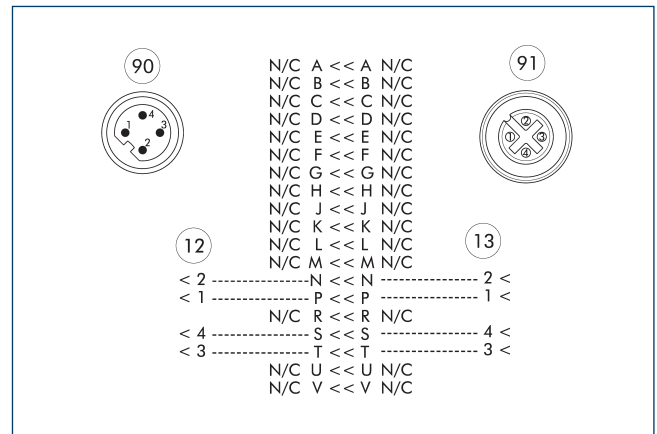
Combination SWO-GD4-K and SWO-GD4-A



12 Master side

13 Adapter side

Pin assignment for SWO-GD4-K and SWO-GD4-A



12 Master side

13 Adapter side

90 M12 connector, A-coded, 4-pin

91 M12 socket, A-coded, 4-pin

SWO-E GF19

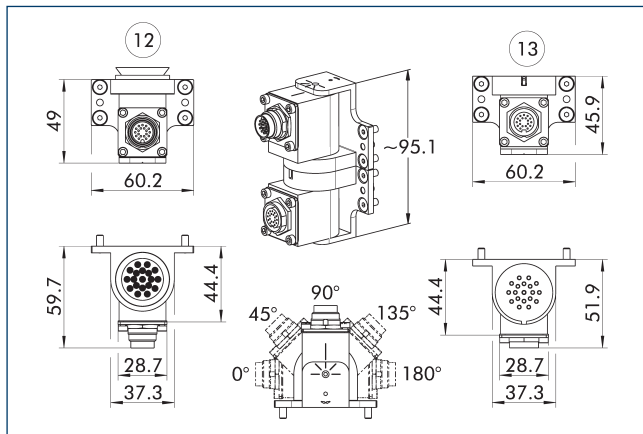
Electric feed-through module



Technical data

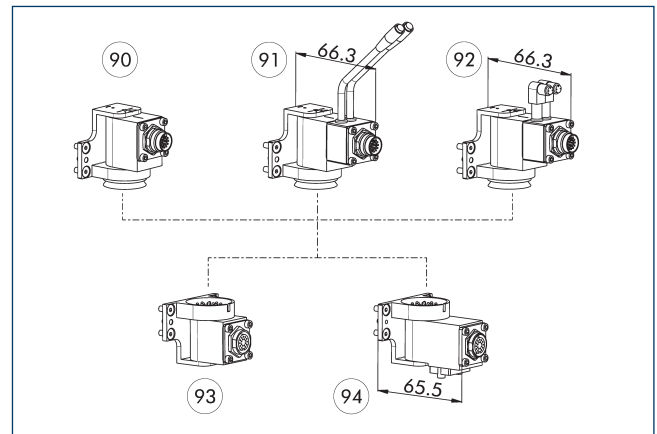
Description		SWO-GF19-K	SWO-GF19W-K	SWO-GF19-A	SWO-GF14-A
ID		9948655	9957467	9948658	9957468
Suitable on		Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J	J
Transmission type		Signal	Signal	Signal	Signal
Weight	[kg]	0.14	0.14	0.12	0.15
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		19	15	19	14
Nominal current	[A]	3	3	3	3
Nominal voltage	[V AC]	125/-	125/-	125/-	125/-
Electrical connection		M16 connector, 19-pin	M16 connector, 19-pin	M16 socket, 19-pin	M16 socket, 19-pin
Electrical connection outlet		Can be radially swiveled	Can be radially swiveled	Can be radially swiveled	Can be radially swiveled
Special properties		Can swivel in five positions	Can swivel in five positions, two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Can swivel in five positions	Can be swiveled in five positions, rotary encoder switch for tool coding for 0-16 tools.

Combination SW0-GF19-K and SW0-GF19-A



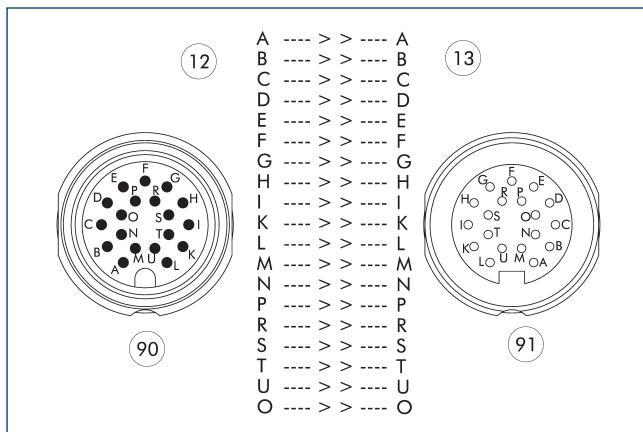
- 12 Master side
13 Adapter side
90 Swiveling plug in 5 positions

Combination possibilities GF19



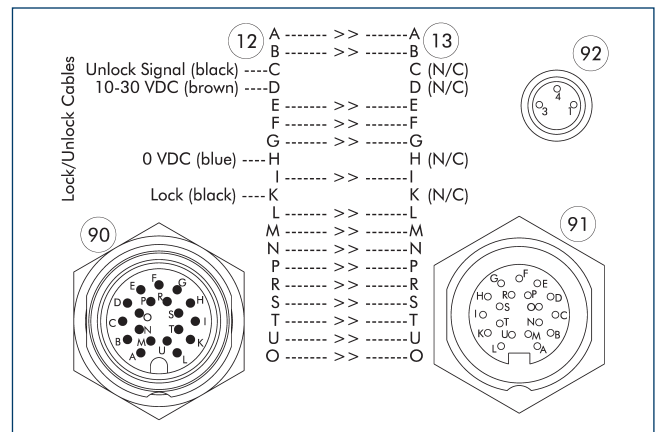
- 90 SW0-GF19-K
91 SW0-GF19W-K
92 SW0-GF19-A
93 SW0-GF19-A
94 SW0-GF14-A

Pin assignment for SW0-GF19-K and SW0-GF19-A



- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin

Pin assignment for SW0-GF19W-K and SW0-GF19-A

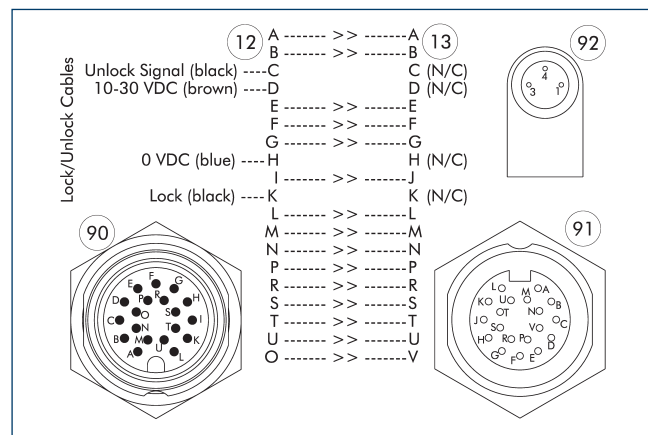


- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 M8 socket, A-coded, 3-pin

SWO-E GF19

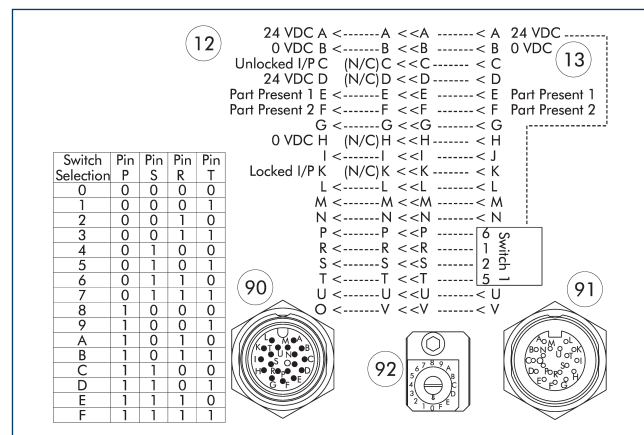
Electric feed-through module

Pin assignment for SWO-GF19R-K and SWO-GF19-A



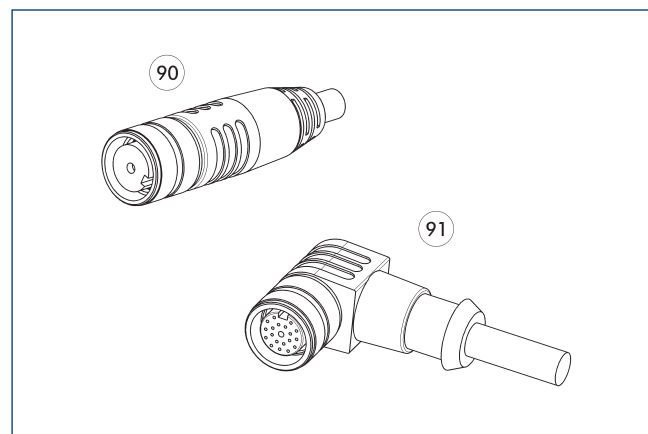
- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 M8 socket, A-coded, 3-pin

Pin assignment for SWO-GF19-K and SWO-GF14-A



- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 Rotary encoder switch for tool coding for 0-16 tools.

Cable plug/cable extension



- 90 Connector/straight socket with extension cable
91 Connector/angled socket with extension cable

Description	ID	Length [m]
Angled cable connector with cable, robot-side		
KV-10-SWK-19F-90	0302173	10
KV-5-SWK-19F-90	0302172	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19F-90	0302175	3
Straight cable connector with cable, robot-side		
KV-10-SWK-19F-0	0302171	10
KV-5-SWK-19F-0	0302170	5
Straight cable connector with cable, tool-side		
KV-3-SWA-19F-0	0302174	3

- ① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E K12

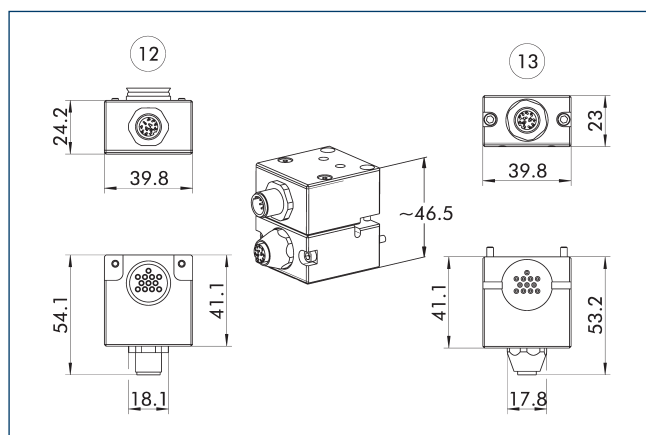
Electric feed-through module



Technical data

Description		SWO-K12-K	SWO-K12-A
ID		9948701	9948702
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		K	K
Transmission type		Signal	Signal
Weight	[kg]	0.07	0.07
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		12	12
Nominal current	[A]	2	2
Nominal voltage	[V DC]	~150	~150
Electrical connection		M12 connector, A-coded, 12-pin	M12 socket, A-coded, 12-pin
Electrical connection outlet		radial	radial
Special properties		-	-

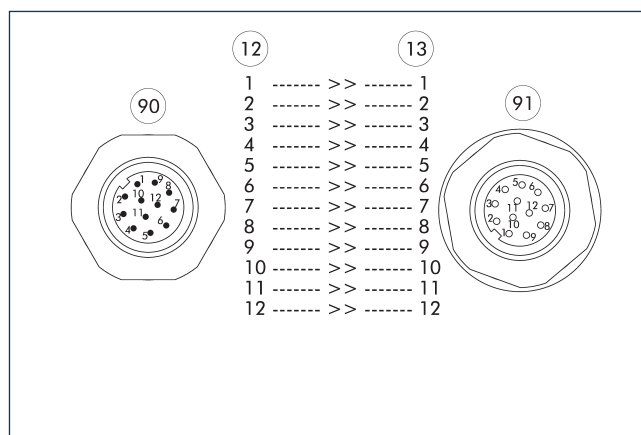
Combination SWO-K12-K and SWO-K12-A



12 Master side

13 Adapter side

Pin assignment for SWO-K12-K and SWO-K12-A



12 Master side

13 Adapter side

90 M12 connector, A-coded, 12-pin

91 M12 socket, A-coded, 12-pin

SWO-E K19

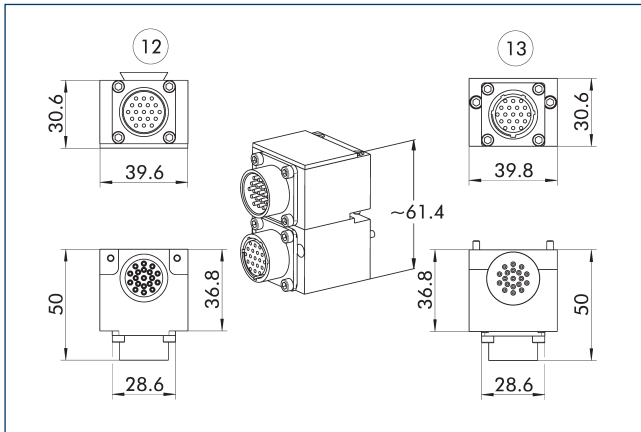
Electric feed-through module



Technical data

Description		SWO-K19-K	SWO-K19P-K	SWO-K19W-K	SWO-K19-A	SWO-K14-A	SWO-K10-A
ID		9937328	9949315	9949316	9937329	9954959	9960543
Suitable on		Quick-change master	Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter	Quick-change adapter
Screw connection diagram		K	K	K	K	K	K
Transmission type		Signal	Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.14	0.12	0.12	0.13	0.15	0.15
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		19	15	15	19	14	10
Nominal current	[A]	3	3	3	3	3	3
Nominal voltage	[V DC]	-/50	-/50	-/50	-/50	-/50	-/50
Electrical connection		Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins
Electrical connection outlet		radial	radial	radial	radial	radial	radial
Special properties		-	Two sockets (A-coded, 3-pin) integrated in the module housing for connection of locking and unlocking sensor.	Two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	-	Rotary encoder switch for tool coding of 0 – 15 tools.	Two-key encoder switches for tool coding for 0-99 tools.

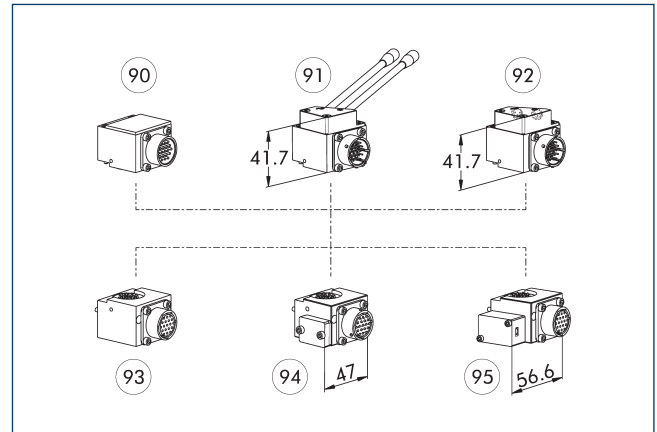
Combination SW0-K19-K and SW0-K19-A



12 Master side

13 Adapter side

Combination possibilities K19



90 SW0-K19-K

91 SW0-K19W-K

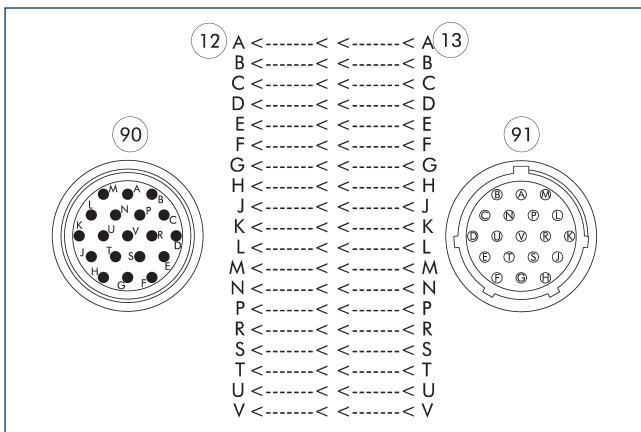
92 SW0-K19P-K

93 SW0-K19-A

94 SW0-K14-A

95 SW0-K10-A

Pin layout for SW0-K19-K mit SW0-K19-A



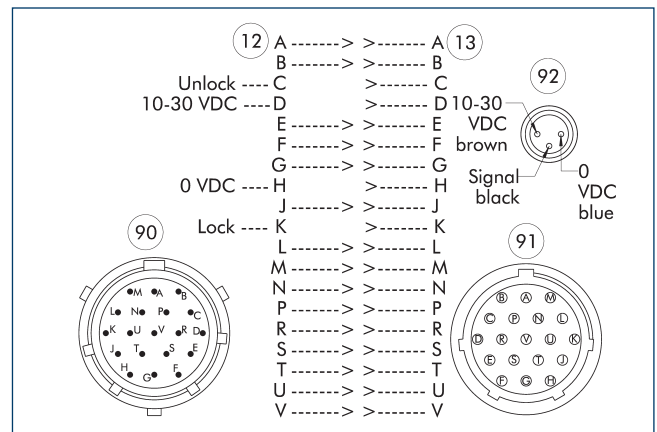
12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

91 Amphenol PT bayonet lock socket, 19 pins

Pin assignment for SW0-K19P-K and SW0-K19-A



12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

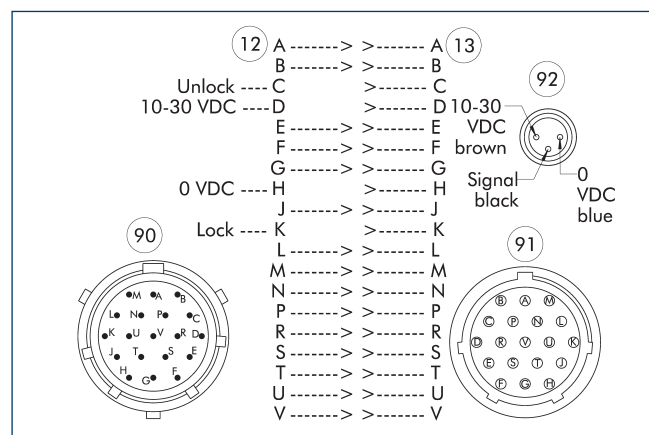
91 Amphenol PT bayonet lock socket, 19 pins

92 M8 socket, A-coded, 3-pin

SWO-E K19

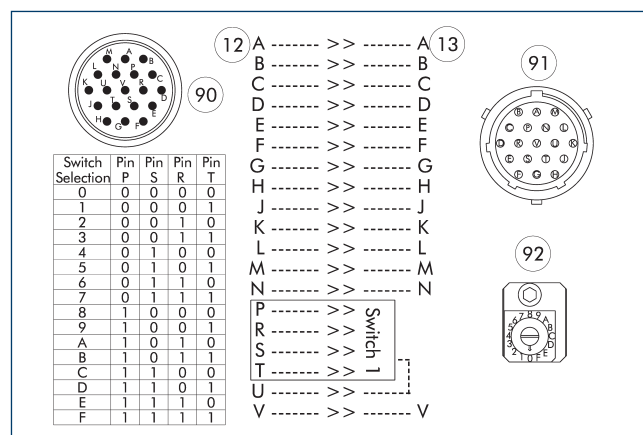
Electric feed-through module

Pin assignment for SWO-K19W-K and SWO-K19-A



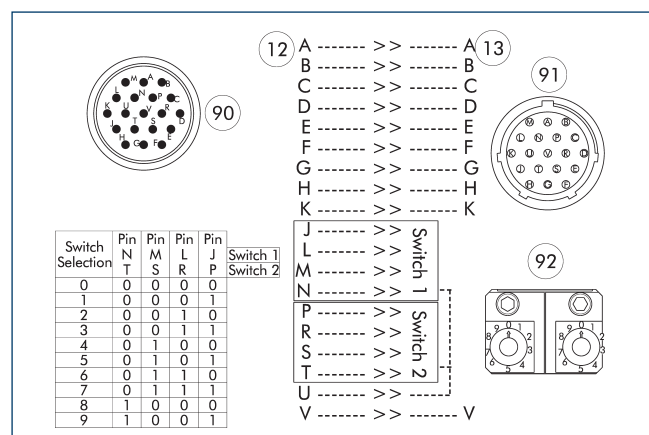
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 M8 socket, A-coded, 3-pin

Pin layout for SWO-K19-K with SWO-K14-A



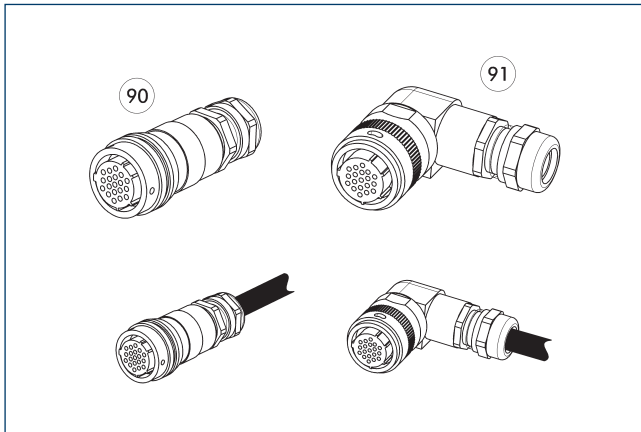
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 Rotary encoder switch for tool coding of 0 – 15 tools.

Pin layout for SWO-K19-K with SWO-K10-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock connector, 19 pins
- 92 Two rotary encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length
		[m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
Angled cable connector with cable, robot-side		
KV-3-SWK-19B-90	0302179	3
KV-5-SWK-19B-90	0302190	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
Straight cable connector with cable, robot-side		
KV-3-SWK-19B-0	0302176	3
KV-5-SWK-19B-0	0302177	5
Straight cable connector with cable, tool-side		
KV-3-SWA-19B-0	0302178	3

① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E K26

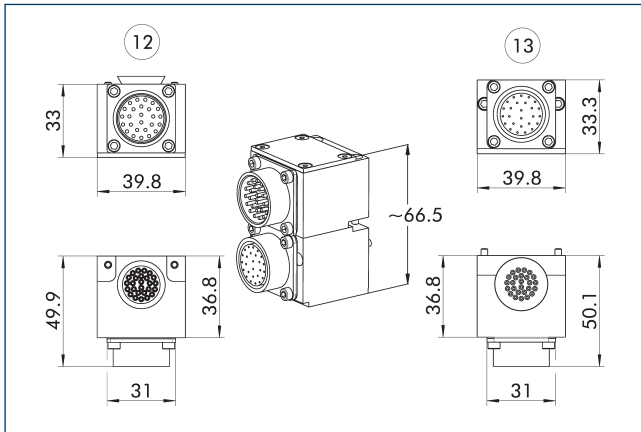
Electric feed-through module



Technical data

Description		SWO-K26-K	SWO-K26P-K	SWO-K26-A	SWO-K21-A
ID		9937798	1301550	9937799	9958100
Suitable on		Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		K	K	K	K
Transmission type		Signal	Signal	Signal	Signal
Weight	[kg]	0.09	0.14	0.08	0.1
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		26	22	26	21
Nominal current	[A]	3	3	3	3
Nominal voltage	[V DC]	-/50	-/50	-/50	-/50
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
Electrical connection outlet		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 0-16 tools.

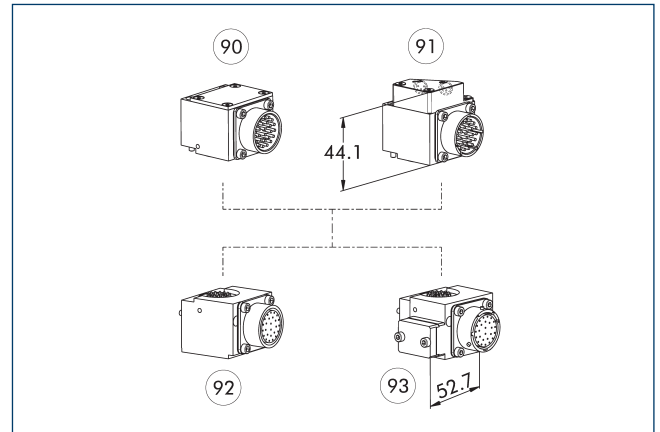
Combination SWO-K26-K and SWO-K26-A



12 Master side

13 Adapter side

Combination possibilities K26



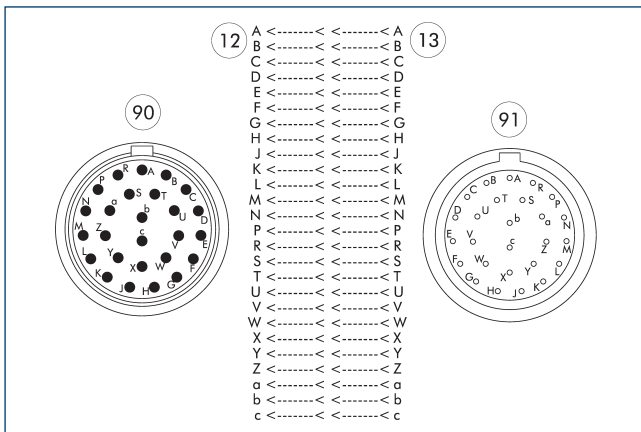
90 SWO-K26-K

91 SWO-K26P-K

92 SWO-K26-A

93 SWO-K21-A

Pin assignment for SWO-K26-K and SWO-K26-A



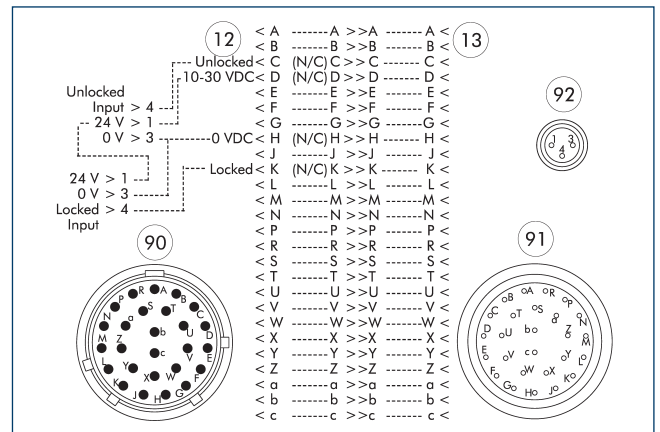
12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 26 pins

91 Amphenol PT bayonet lock socket, 26 pins

Pin assignment for SWO-K26P-K and SWO-K26-A



12 Master side

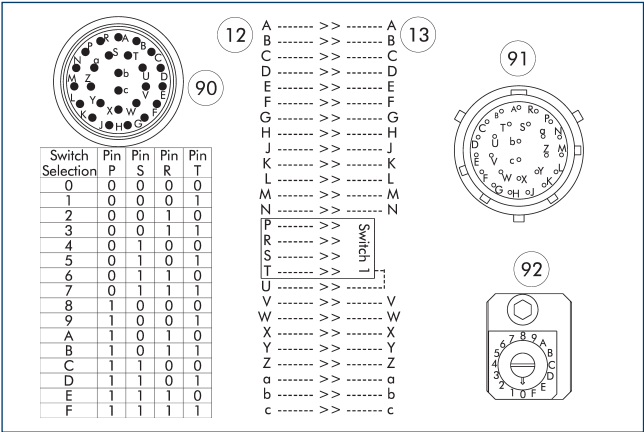
13 Adapter side

90 Amphenol PT bayonet lock connector, 26 pins

91 Amphenol PT bayonet lock socket, 26 pins

92 M8 socket, A-coded, 3-pin

Pin assignment for SWO-K26-K and SWO-K21-A



- 12

Master side
- 13

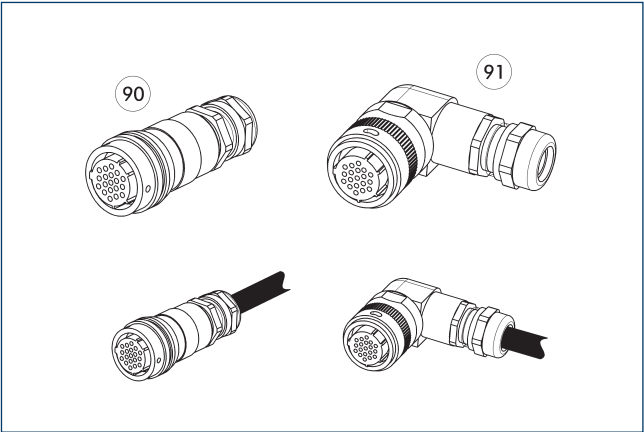
Adapter side
- 90

Amphenol PT bayonet lock connector, 26 pins
- 91

Amphenol PT bayonet lock socket, 26 pins
- 92

Rotary encoder switch for tool coding for 0-16 tools.

Cable plug/cable extension



- 90

Plug/socket straight
- 91

Connector/angled socket

Other cable lengths on request.

Description	ID	Length
		[m]
Angled cable connector, robot-side		
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-26B-A-0-C	0301291	
Straight cable connector with cable, robot-side		
KV-3-SWK-26B-0	0302192	3
KV-5-SWK-26B-0	0302193	5
Straight cable connector with cable, tool-side		
KV-3-SWA-26B-0	0302184	3

① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E KF19

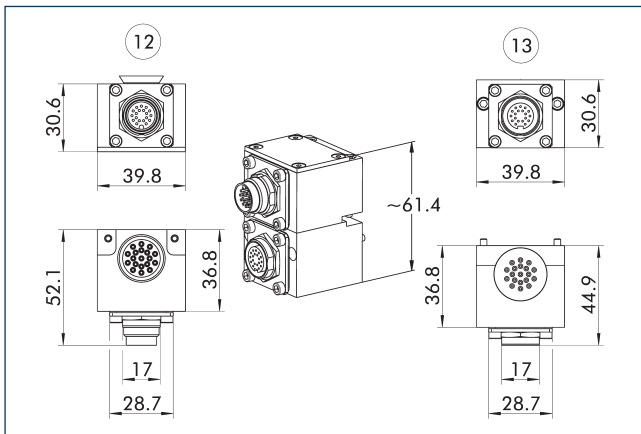
Electric feed-through module



Technical data

Description		SWO-KF19-K	SWO-KF19P-K	SWO-KF19-A	SWO-KF14-A
ID		9959886	9872377	9959887	9961307
Suitable on		Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		K	K	K	K
Transmission type		Signal	Signal	Signal	Signal
Weight	[kg]	0.11	0.12	0.11	0.12
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		19	15	19	14
Nominal current	[A]	3	3	3	3
Nominal voltage	[V DC]	-/50	-/50	-/50	-/50
Electrical connection		M16 connector, 19-pin	M16 connector, 19-pin	M16 socket, 19-pin	M16 socket, 19-pin
Electrical connection outlet		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 0-16 tools.

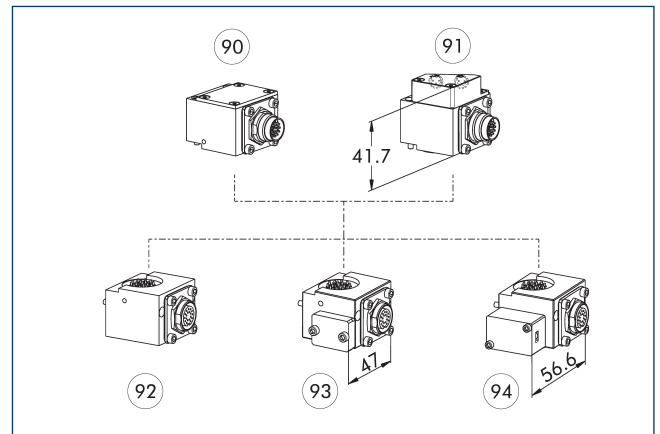
Combination SW0-KF19-K and SW0-KF19-A



12 Master side

13 Adapter side

Combination possibilities KF19



90 SW0-KF19-K

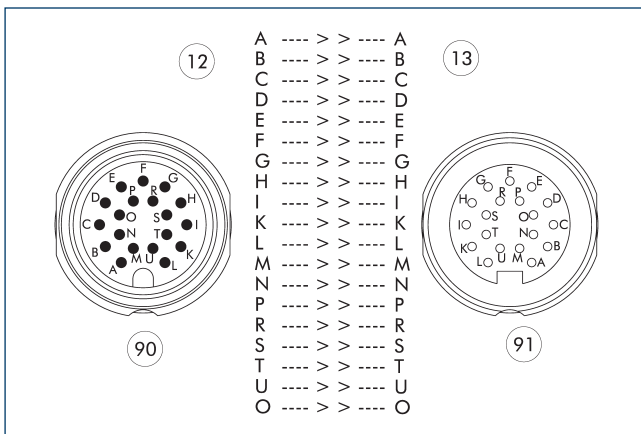
91 SW0-KF19P-K

92 SW0-KF19-A

93 SW0-KF14-A

94 SW0-KF10-A

Pin assignment for SW0-KF19-K and SW0-KF19-A



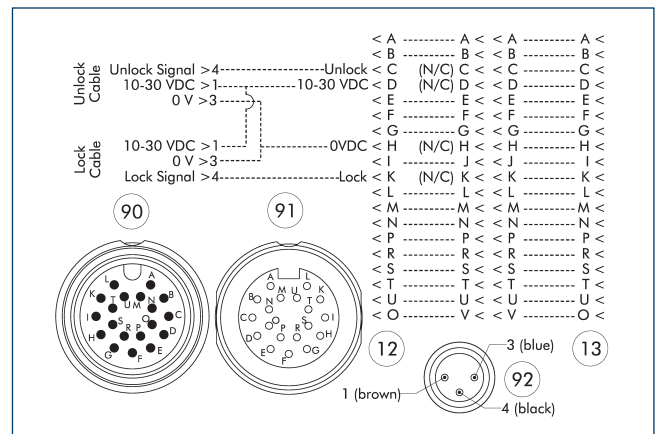
12 Master side

13 Adapter side

90 M16 connector, 19-pin

91 M16 socket, 19-pin

Pin assignment for SW0-KF19P-K and SW0-KF19-A



12 Master side

13 Adapter side

90 M16 connector, 19-pin

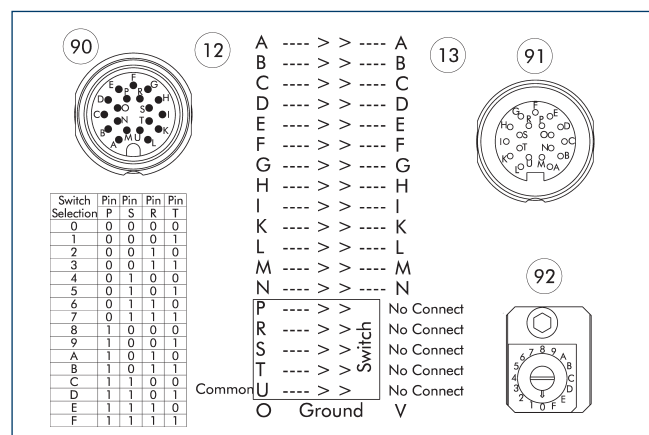
91 M16 socket, 19-pin

92 M8 socket, A-coded, 3-pin

SWO-E KF19

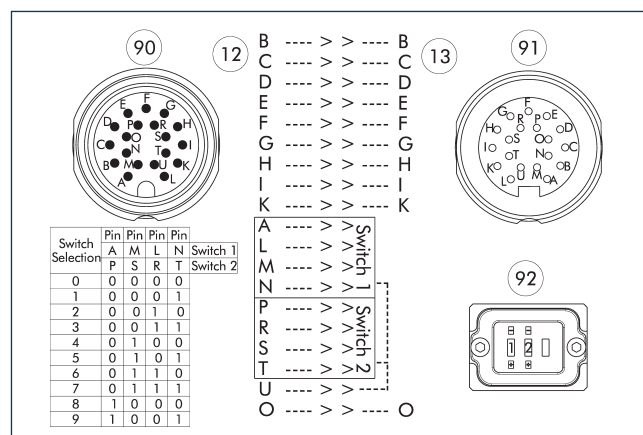
Electric feed-through module

Pin assignment for SWO-KF19-K and SWO-KF14-A



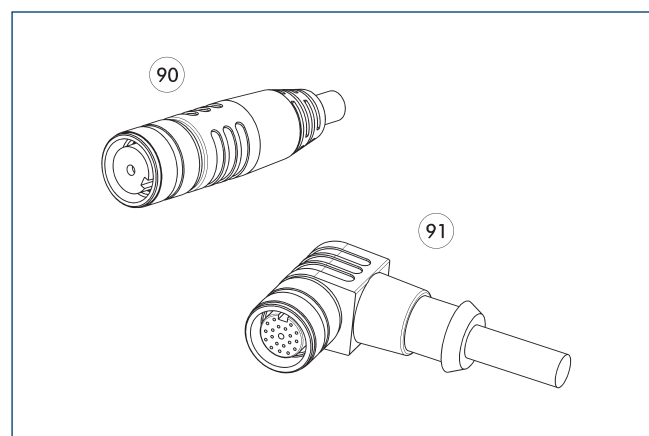
- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 Rotary encoder switch for tool coding for 0-16 tools.

Pin assignment for SWO-KF19-K and SWO-KF10-A



- 12 Master side
13 Adapter side
90 M16 connector, 19-pin
91 M16 socket, 19-pin
92 Two-key encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



- 90 Connector/straight socket with extension cable
91 Connector/angled socket with extension cable

Description	ID	Length
		[m]
Angled cable connector with cable, robot-side		
KV-10-SWK-19F-90	0302173	10
KV-5-SWK-19F-90	0302172	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19F-90	0302175	3
Straight cable connector with cable, robot-side		
KV-10-SWK-19F-0	0302171	10
KV-5-SWK-19F-0	0302170	5
Straight cable connector with cable, tool-side		
KV-3-SWA-19F-0	0302174	3

- ① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E ML12

Electric feed-through module

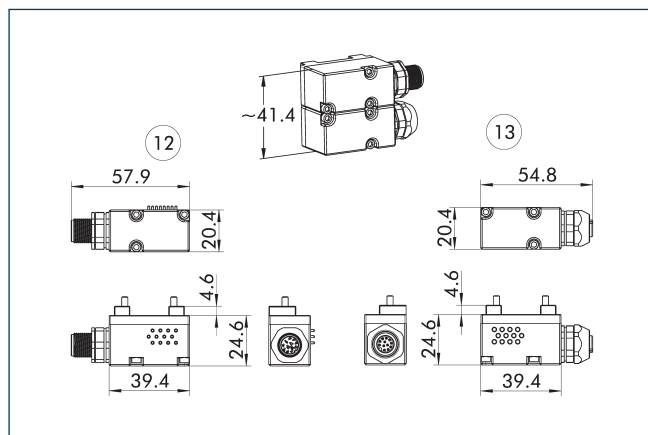


Technical data

Description		SWO-ML12R-K	SWO-ML12R-A
ID		1426575	1426576
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		S7*	S7*
Transmission type		Signal	Signal
Weight	[kg]	0.045	0.045
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		12	12
Nominal current	[A]	1	1
Nominal voltage	[V DC]	-/48	-/48
Electrical connection		M12 connector, A-coded, 12-pin	M12 socket, A-coded, 12-pin
Electrical connection outlet		tangential	tangential
Special properties		-	-

* Screw connection diagram only suitable for SWS-007, not for SWS-011
Feed-through modules with cable outlet on the left on request.

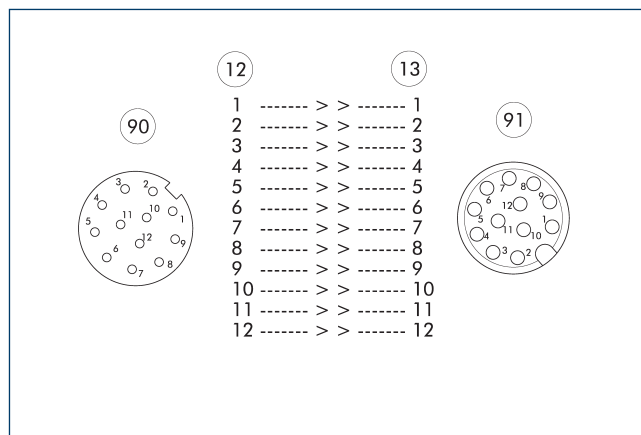
Combination SW0-ML12R-K and SW0-ML12R-A



12 Master side

13 Adapter side

Pin assignment for SW0-ML12R-K and ML12R-A



12 Master side

13 Adapter side

90 M12 connector, A-coded, 12-pin

91 M12 socket, A-coded, 12-pin

SWO-E ML8

Electric feed-through module

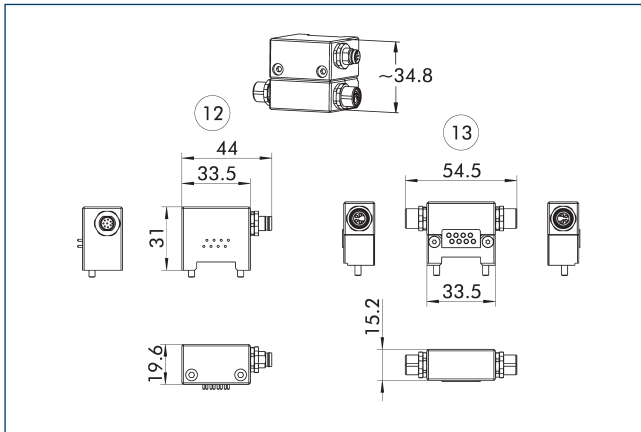


Technical data

Description		SWO-ML8A-K	SWO-ML8A-A	SWO-ML6-A
ID		1426624	1426625	1426626
Suitable on		Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		S7	S7	S7
Transmission type		Signal	Signal	Signal
Weight	[kg]	0.027	0.031	0.03
Min./max. ambient temperature	[°C]	5/60	5/60	5/60
Number of pin contacts		8	8	6
Nominal current	[A]	1	1	1
Nominal voltage	[V DC]	0/30	0/30	0/30
Electrical connection		M8 connector, A-coded, 8-pin	2 x M8 socket, A-coded, 4-pin	2 x M8 socket, A-coded, 3-pin
Electrical connection outlet		tangential	tangential	tangential
Special properties		-	-	-

① Suitable optional module for use on UR robots on request.

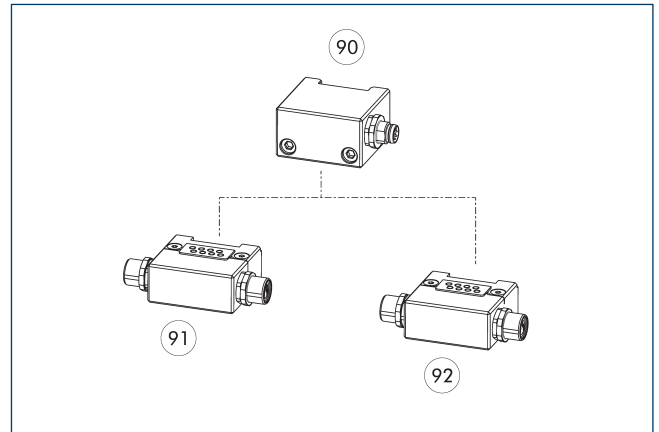
Combination SWO-ML8A-K and SWO-ML8A-A



12 Master side

13 Adapter side

Combination options ML8A

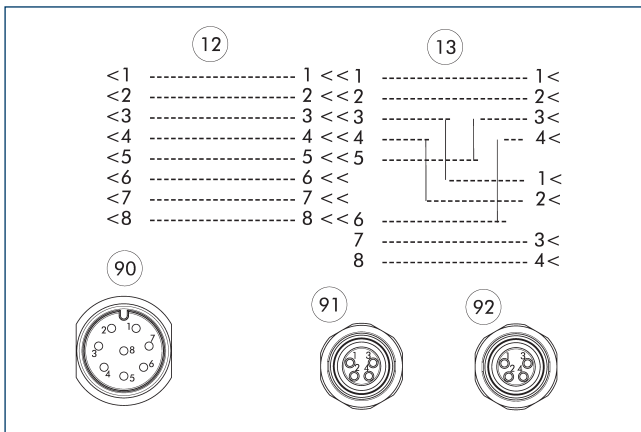


90 SWO-ML8A-K

92 SWO-ML6-A

91 SWO-ML8A-A

Pin assignment for SWO-ML8A-K and SWO-ML8A-A



12 Master side

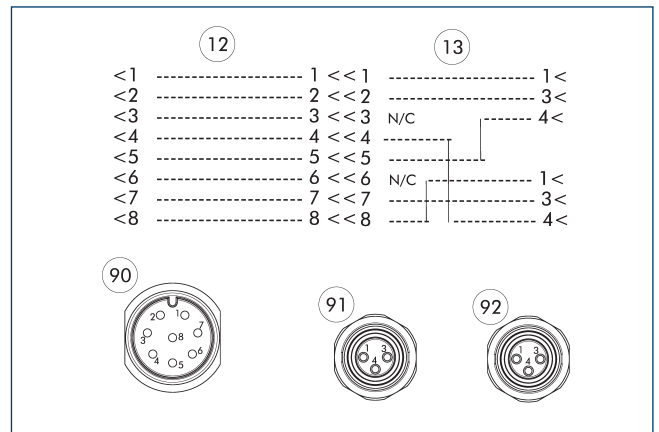
91 M8 socket, A-coded, 4-pin

13 Adapter side

92 M8 socket, A-coded, 4-pin

90 M8 connector, A-coded, 8-pin

Pin assignment for SWO-ML8A-K and SWO-ML6-A



12 Master side

91 M8 socket, A-coded, 3-pin

13 Adapter side

92 M8 socket, A-coded, 3-pin

90 M8 connector, A-coded, 8-pin

SWO-E R19

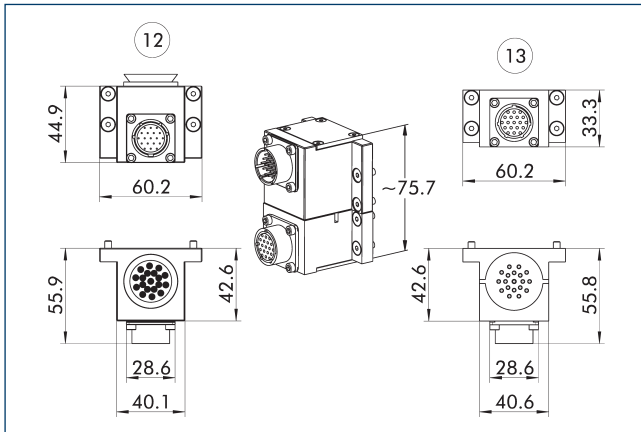
Electric feed-through module



Technical data

Description		SWO-R19-K	SWO-R19R-K	SWO-R19W-K	SWO-R19-A	SWO-R14-A	SWO-R10-A
ID		9935815	9942391	9942041	9935816	9935100	9941385
Suitable on		Quick-change master	Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J	J	J	J
Transmission type		Signal	Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.2	0.16	0.19	0.14	0.14	0.14
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		19	15	15	19	14	10
Nominal current	[A]	5	5	5	5	5	5
Nominal voltage	[V AC]	250/-	250/-	250/-	250/-	250/-	250/-
Electrical connection		Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins
Electrical connection outlet		radial	radial	radial	radial	radial	radial
Special properties		-	Two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	-	Two-key encoder switches for tool coding for 0-9 tools.	Two-key encoder switches for tool coding for 0-99 tools.

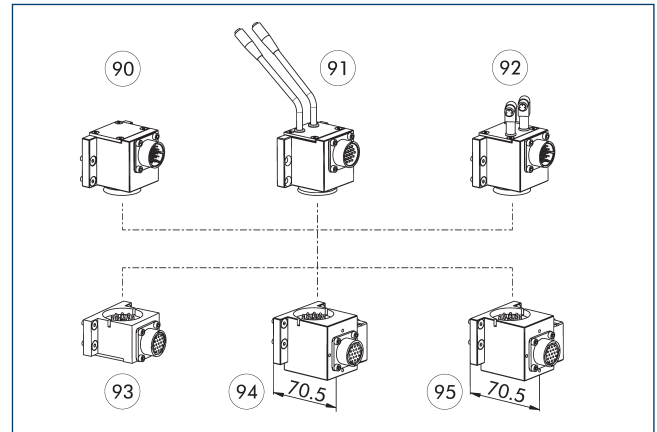
Combination SW0-R19-K and SW0-R19-A



12 Master side

13 Adapter side

Combination possibilities R19



90 SW0-R19-K

91 SW0-R19W-K

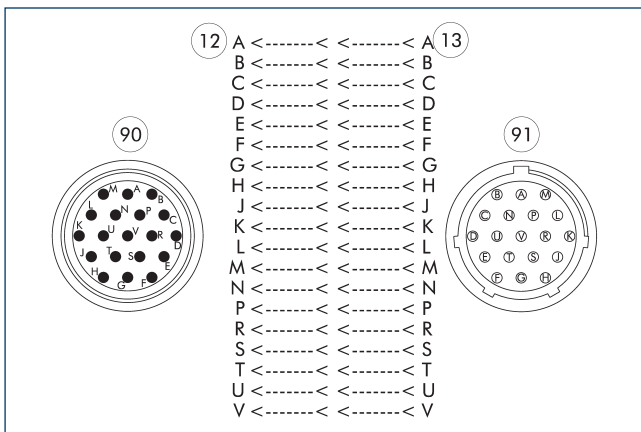
92 SW0-R19R-K

93 SW0-R19-A

94 SW0-R14-A

95 SW0-R10-A

Pin layout for SW0-R19-K with SW0-R19-A



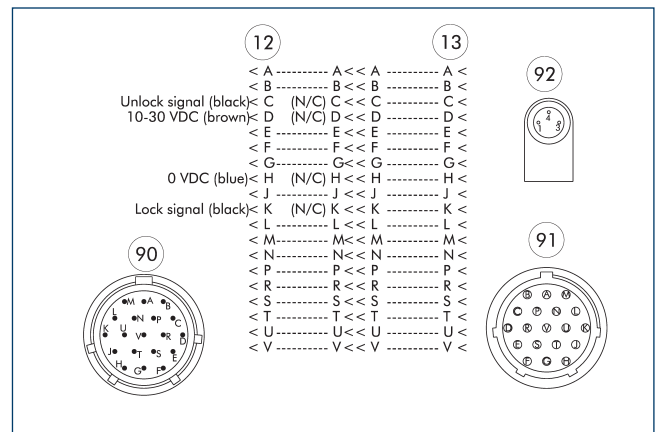
12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

91 Amphenol PT bayonet lock socket, 19 pins

Pin assignment for SW0-R19R-K and SW0-R19-A



12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

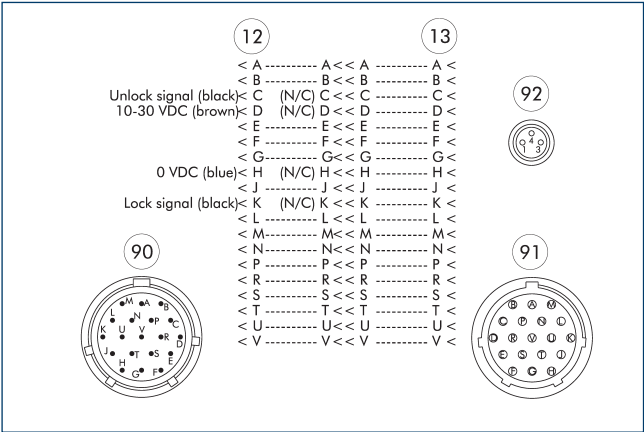
91 Amphenol PT bayonet lock socket, 19 pins

92 M8 socket, A-coded, 3-pin

SWO-E R19

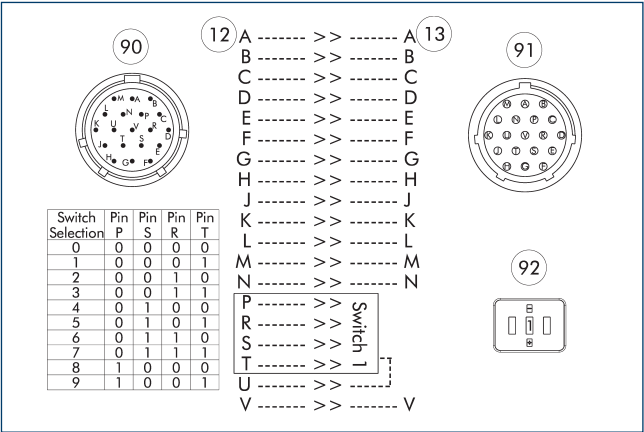
Electric feed-through module

Pin assignment for SWO-R19W-K and SWO-R19-A



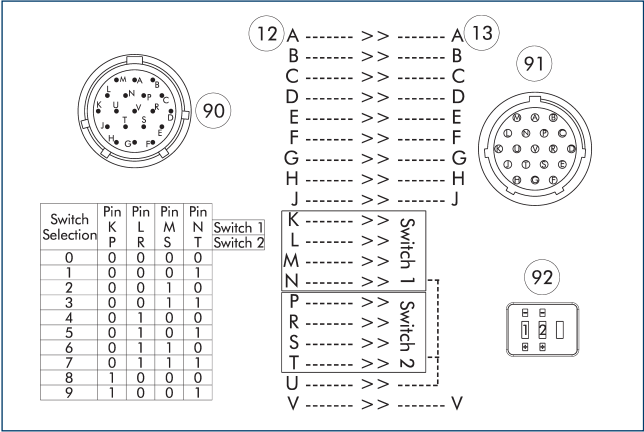
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 M8 socket, A-coded, 3-pin

Pin layout for SWO-R19-K with SWO-R14-A



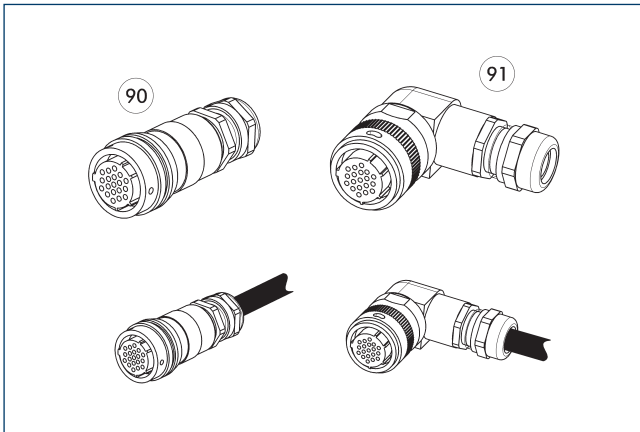
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 Two-key encoder switches for tool coding for 0-9 tools.

Pin layout for SWO-R19-K with SWO-R10-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 Two-key encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
Angled cable connector with cable, robot-side		
KV-3-SWK-19B-90	0302179	3
KV-5-SWK-19B-90	0302190	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
Straight cable connector with cable, robot-side		
KV-3-SWK-19B-0	0302176	3
KV-5-SWK-19B-0	0302177	5
Straight cable connector with cable, tool-side		
KV-3-SWA-19B-0	0302178	3

① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E R26

Electric feed-through module



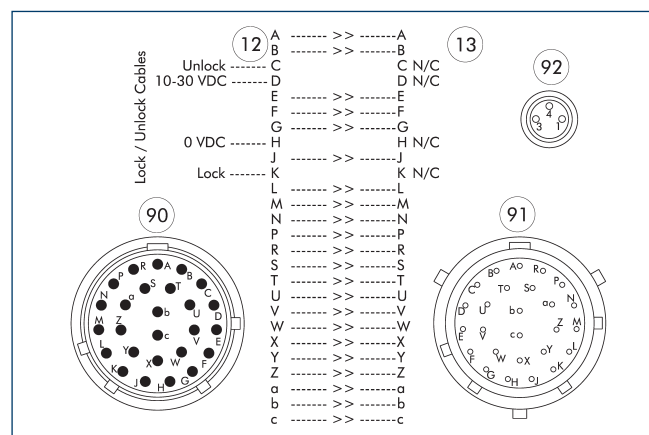
Technical data

Description		SWO-R26-K	SWO-R26R-K	SWO-R26W-K	SWO-R26-A	SWO-R21-A	SWO-R17-A
ID		9935819	9949320	9942076	9935820	9799841	9941386
Suitable on		Quick-change master	Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J	J	J	J
Transmission type		Signal	Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.2	0.16	0.22	0.19	0.19	0.19
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		26	22	22	26	21	17
Nominal current	[A]	3	3	3	3	3	3
Nominal voltage	[V AC]	250/-	250/-	250/-	250/-	250/-	250/-
Electrical connection		Amphenol PT bayonet lock connector, 26 pins	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	Amphenol PT bayonet lock socket, 26 pins
Electrical connection outlet		radial	radial	radial	radial	radial	radial
Special properties		-	Two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	-	Two-key encoder switches for tool coding for 0-9 tools.	Two-key encoder switches for tool coding for 0-99 tools.

SWO-E R26

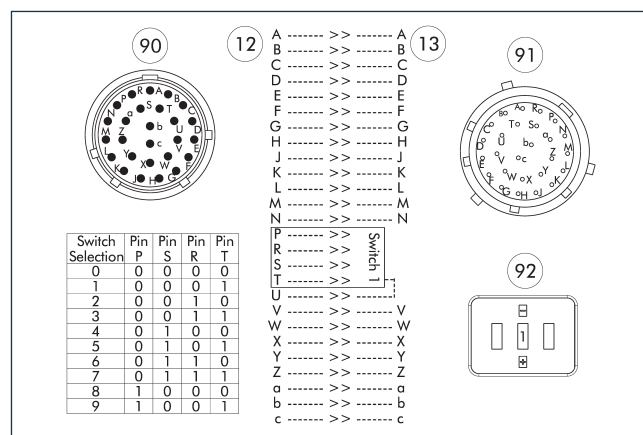
Electric feed-through module

Pin assignment for SWO-R26W-K and SWO-R26-A



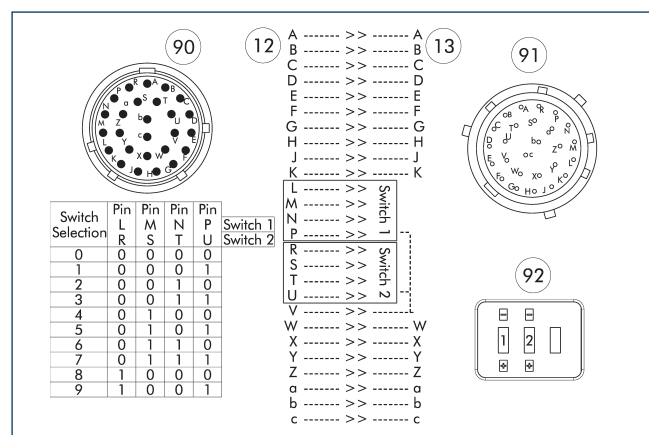
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 26 pins
- 91 Amphenol PT bayonet lock socket, 26 pins
- 92 M8 socket, A-coded, 3-pin

Pin assignment for SWO-R26-K and SWO-R21-A



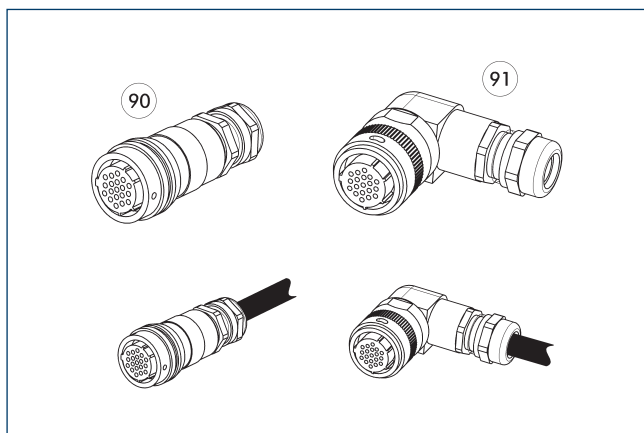
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 26 pins
- 91 Amphenol PT bayonet lock socket, 26 pins
- 92 Two-key encoder switches for tool coding for 0-9 tools.

Pin assignment for SWO-R26-K and SWO-R17-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 26 pins
- 91 Amphenol PT bayonet lock socket, 26 pins
- 92 Two-key encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-26B-A-0-C	0301291	
Straight cable connector with cable, robot-side		
KV-3-SWK-26B-0	0302192	3
KV-5-SWK-26B-0	0302193	5
Straight cable connector with cable, tool-side		
KV-3-SWA-26B-0	0302184	3

① For more detailed information and other cable connectors, see catalog chapter "SW0" or visit our website.

SWO-E R32

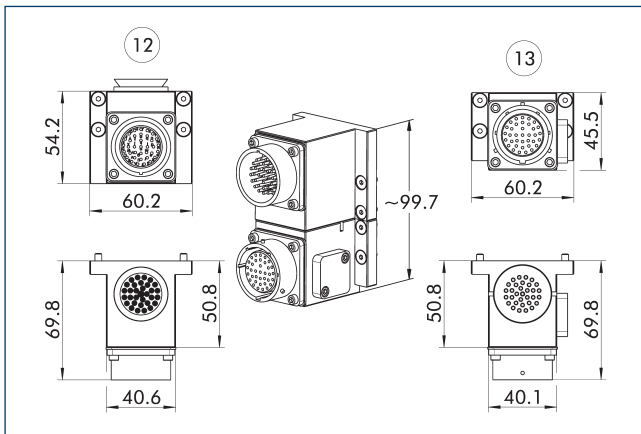
Electric feed-through module



Technical data

Description		SWO-R32-K	SWO-R32R-K	SWO-R32W-K	SWO-R32-A
ID		9941387	9948853	9942418	9941388
Suitable on		Quick-change master	Quick-change master	Quick-change master	Quick-change adapter
Screw connection diagram		J	J	J	J
Transmission type		Signal	Signal	Signal	Signal
Weight	[kg]	0.33	0.29	0.29	0.25
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		32	32	32	32
Nominal current	[A]	3	3	3	3
Nominal voltage	[V AC]	250/-	250/-	250/-	250/-
Electrical connection		Amphenol PT bayonet lock connector, 36 pins	Amphenol PT bayonet lock socket, 36 pins	Amphenol PT bayonet lock connector, 36 pins	Amphenol PT bayonet lock socket, 36 pins
Electrical connection outlet		radial	radial	radial	radial
Special properties		-	Two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	-

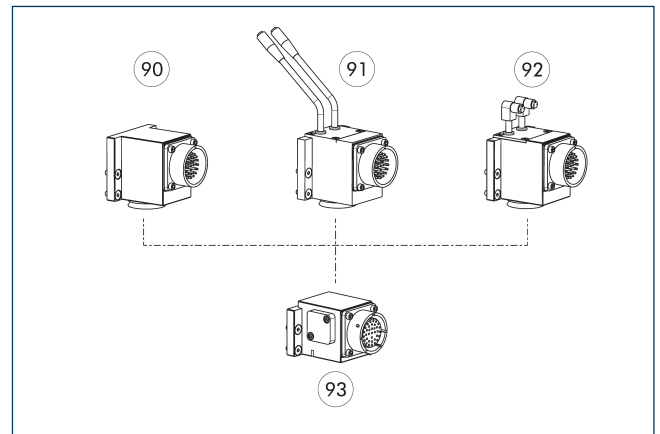
Combination SWO-R32-A and SWO-R32-A



12 Master side

13 Adapter side

Combination possibilities R32



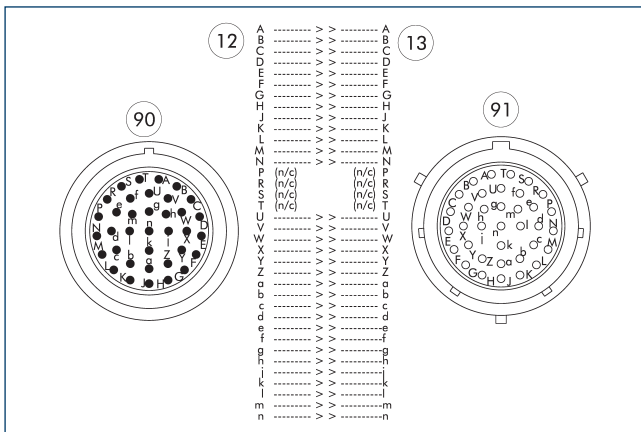
90 SWO-R32-K

91 SWO-R32W-K

92 SWO-R32R-K

93 SWO-R32-A

Pin assignment for SWO-R32-K and SWO-R32-A



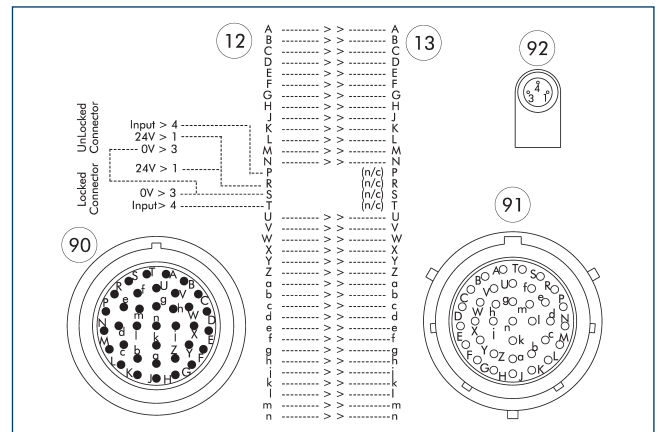
12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 36 pins

91 Amphenol PT bayonet lock socket, 36 pins

Pin assignment for SWO-R32R-K and SWO-R32-A



12 Master side

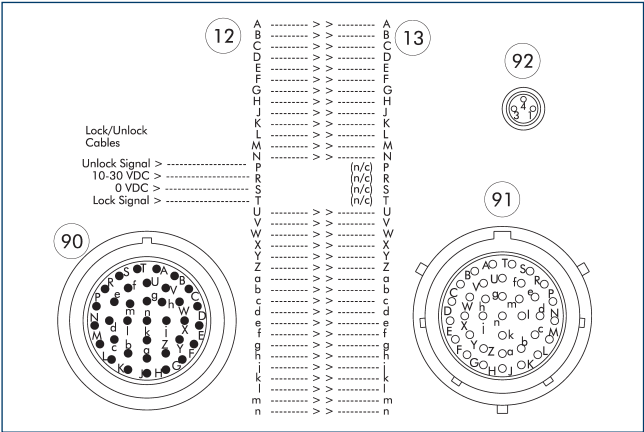
13 Adapter side

90 Amphenol PT bayonet lock connector, 36 pins

91 Amphenol PT bayonet lock socket, 36 pins

92 M8 socket, A-coded, 3-pin

Pin assignment for SWO-R32W-K and SWO-R32-A



- 12

Master side
- 13

Adapter side
- 90

Amphenol PT bayonet lock connector, 36 pins
- 91

Amphenol PT bayonet lock socket, 36 pins
- 92

M8 socket, A-coded, 3-pin

SWO-E RF19

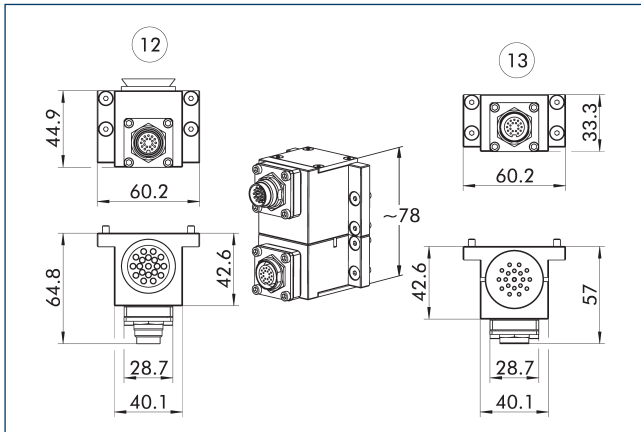
Electric feed-through module



Technical data

Description		SWO-RF19-K	SWO-RF19R-K	SWO-RF19W-K	SWO-RF19-A	SWO-RF14-A	SWO-RF10-A
ID		9948654	9949324	9949325	9948657	9961312	9961313
Suitable on		Quick-change master	Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J	J	J	J
Transmission type		Signal	Signal	Signal	Signal	Signal	Signal
Weight	[kg]	0.2	0.21	0.21	0.13	0.2	0.2
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		19	15	15	19	14	10
Nominal current	[A]	3	3	3	3	3	3
Nominal voltage	[V AC]	125/-	125/-	125/-	125/-	125/-	125/-
Electrical connection		M16 connector, 19-pin	M16 connector, 19-pin	M16 connector, 19-pin	M16 socket, 19-pin	M16 socket, 19-pin	M16 socket, 19-pin
Electrical connection outlet		radial	radial	radial	radial	radial	radial
Special properties		-	Two integrated cables with right-angled M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	Two integrated cables with straight M8 socket (A-coded, 3-pin), for connection of the locking and unlocking sensor.	-	Two-key encoder switches for tool coding for 0-9 tools.	Two-key encoder switches for tool coding for 0-99 tools.

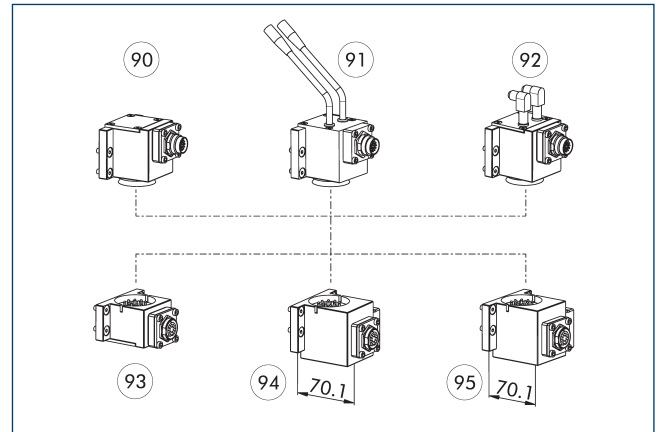
Combination SW0-RF19-K and SW0-RF19-A



12 Master side

13 Adapter side

Combination possibilities RF19



90 SW0-RF19-K

91 SW0-RF19W-K

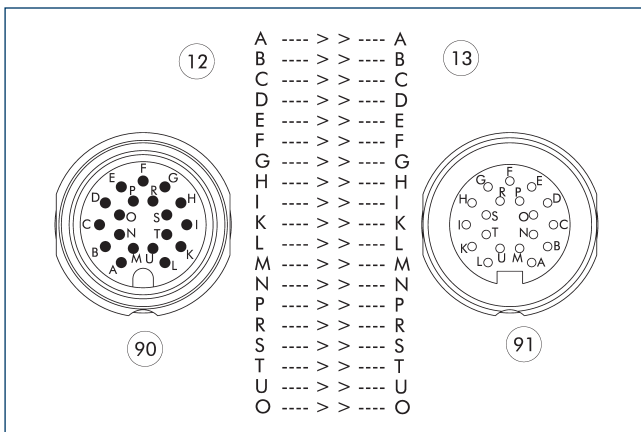
92 SW0-RF19R-K

93 SW0-RF19-A

94 SW0-RF14-A

95 SW0-RF10-A

Pin assignment for SW0-RF19-K and SW0-RF19-A



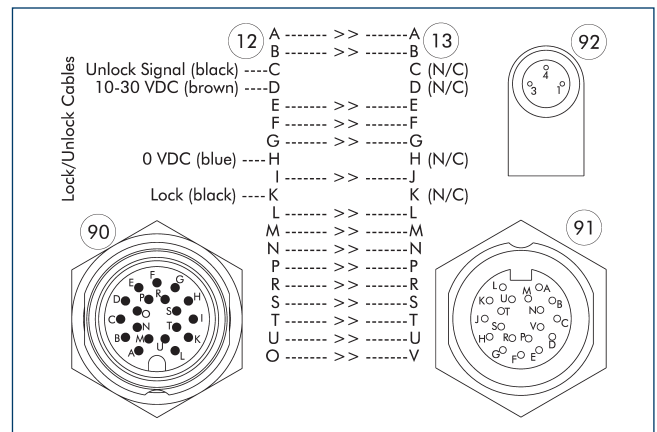
12 Master side

13 Adapter side

90 M16 connector, 19-pin

91 M16 socket, 19-pin

Pin assignment for SW0-RF19R-K and SW0-RF19-A



12 Master side

13 Adapter side

90 M16 connector, 19-pin

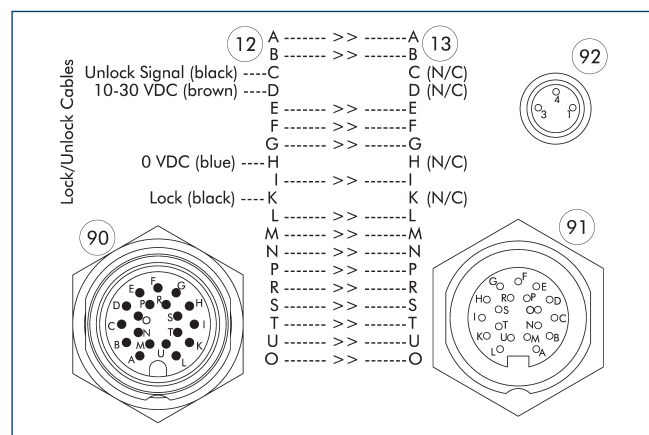
91 M16 socket, 19-pin

92 M8 socket, A-coded, 3-pin

SWO-E RF19

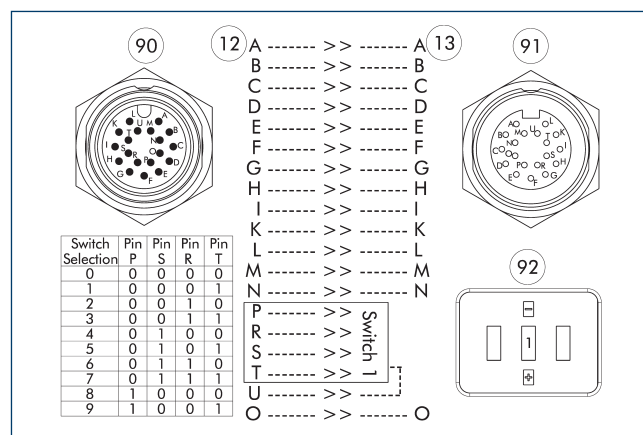
Electric feed-through module

Pin assignment for SWO-RF19W-K and SWO-RF19-A



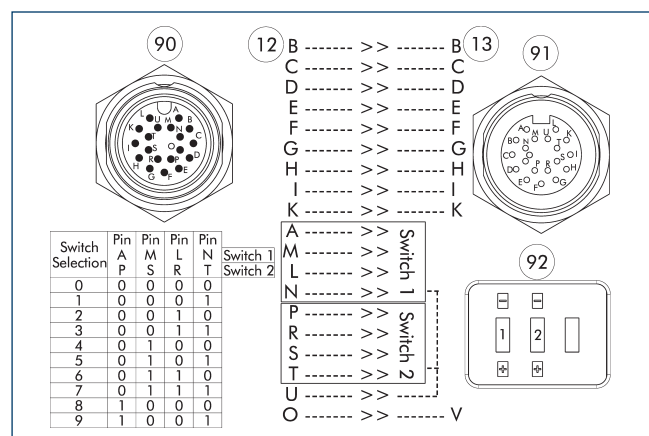
- 12 Master side
- 13 Adapter side
- 90 M16 connector, 19-pin
- 91 M16 socket, 19-pin
- 92 M8 socket, A-coded, 3-pin

Pin assignment for SWO-RF19-K and SWO-RF14-A



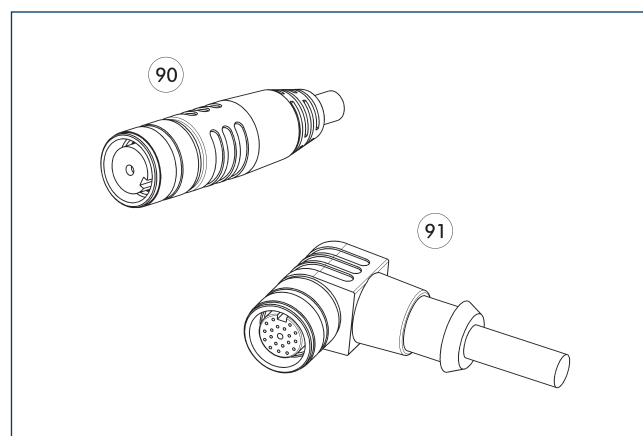
- 12 Master side
- 13 Adapter side
- 90 M16 connector, 19-pin
- 91 M16 socket, 19-pin
- 92 Two-key encoder switches for tool coding for 0-9 tools.

Pin assignment for SWO-RF19-K and SWO-RF10-A



- 12 Master side
- 13 Adapter side
- 90 M16 connector, 19-pin
- 91 M16 socket, 19-pin
- 92 Two-key encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



- 90 Connector/straight socket with extension cable
- 91 Connector/angled socket with extension cable

Description	ID	Length
		[m]
Angled cable connector with cable, robot-side		
KV-10-SWK-19F-90	0302173	10
KV-5-SWK-19F-90	0302172	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19F-90	0302175	3
Straight cable connector with cable, robot-side		
KV-10-SWK-19F-0	0302171	10
KV-5-SWK-19F-0	0302170	5
Straight cable connector with cable, tool-side		
KV-3-SWA-19F-0	0302174	3

- For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SW0-E RK19

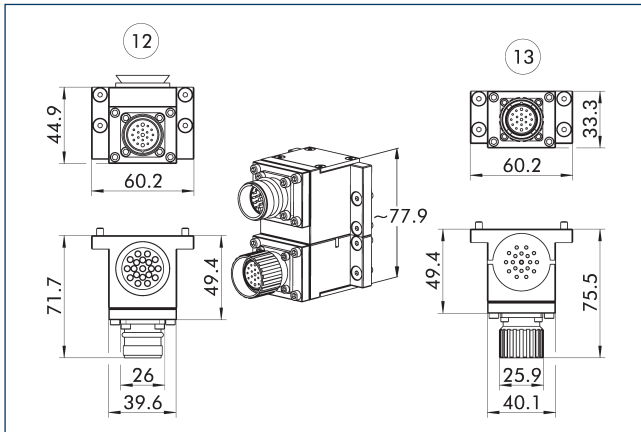
Electric feed-through module



Technical data

Description		SW0-RK19-K	SW0-RK19-A
ID		9965782	9965783
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Signal	Signal
Weight	[kg]	0.25	0.19
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		19	19
Nominal current	[A]	3	3
Nominal voltage	[V AC]	150/-	150/-
Electrical connection		Intercontec M23 threaded cap connector	Intercontec M23 threaded cap socket
Electrical connection outlet		radial	radial
Special properties		-	-

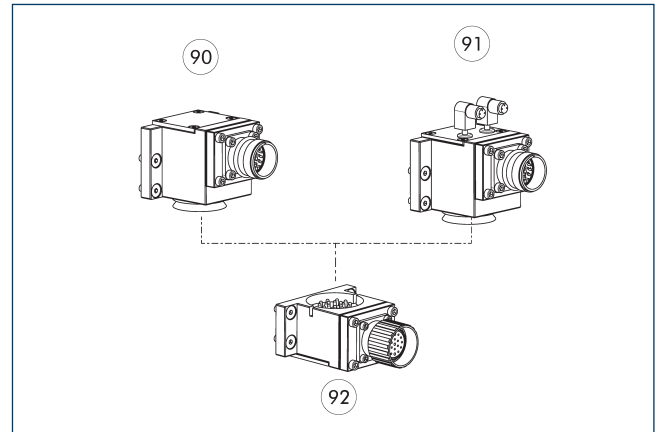
Combination SWO-RK19-K and SWO-RK19-A



12 Master side

13 Adapter side

Combination possibilities RK19

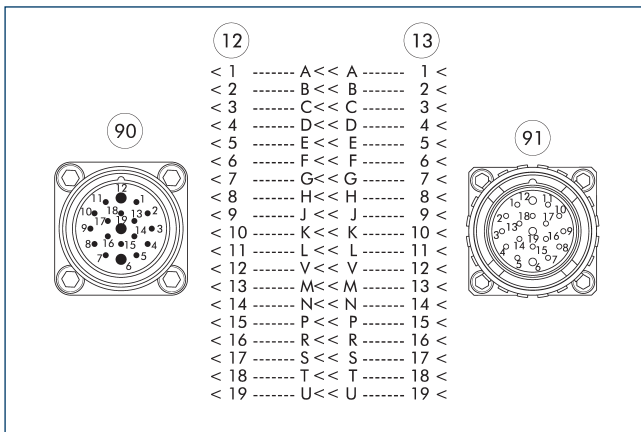


90 SWO-RK19-K

91 SWO-RK19R-K

92 SWO-RK19-A

Pin assignment for SWO-RK19-K and SWO-RK19-A



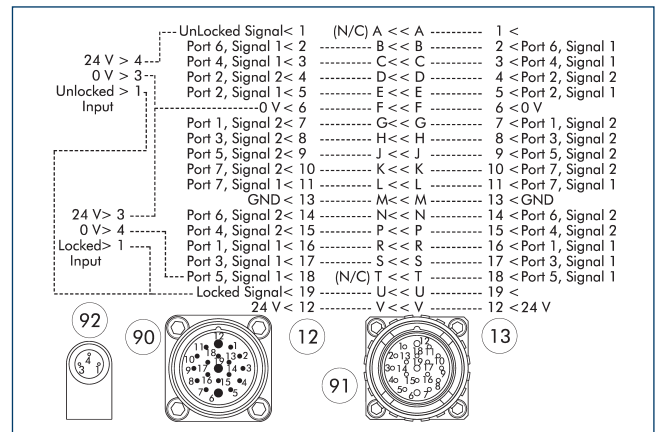
12 Master side

13 Adapter side

90 Intercontec M23 threaded cap connector

91 Intercontec M23 threaded cap socket

Pin assignment for SWO-RK19R-K and SWO-RK19-A



12 Master side

13 Adapter side

90 Intercontec M23 threaded cap connector

91 Intercontec M23 threaded cap socket

92 M8 socket, A-coded, 3-pin

SW0-E S19

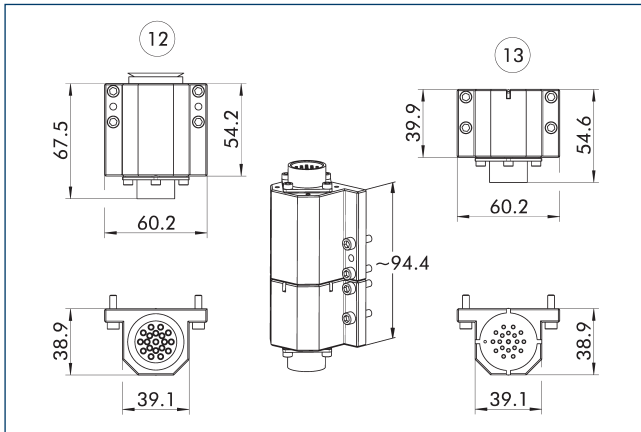
Electric feed-through module



Technical data

Description		SW0-S19-K	SW0-S19-A	SW0-S14-A
ID		9935817	9935818	9937330
Suitable on		Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J
Transmission type		Signal	Signal	Signal
Weight	[kg]	0.22	0.15	0.2
Min./max. ambient temperature	[°C]	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		19	19	14
Nominal current	[A]	5	5	5
Nominal voltage	[V AC]	250/-	250/-	250/-
Electrical connection		Amphenol PT bayonet lock connector, 19 pins	Amphenol PT bayonet lock socket, 19 pins	Amphenol PT bayonet lock socket, 19 pins
Electrical connection outlet		axial	axial	axial
Special properties		-	-	Rotary encoder switch for tool coding for 0-9 tools.

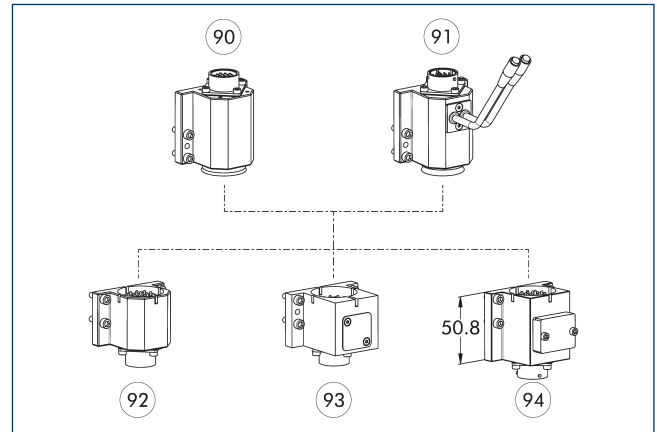
Combination SWO-S19-K and SWO-S19-A



12 Master side

13 Adapter side

Combination possibilities S19



90 SWO-S19-K

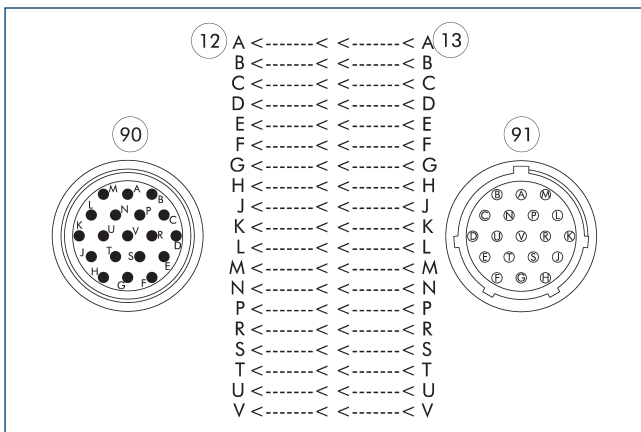
91 SWO-S19W-K

92 SWO-S19-A

93 SWO-S14-A

94 SWO-S10-A

Pin layout for SWO-S19-K with SWO-S19-A



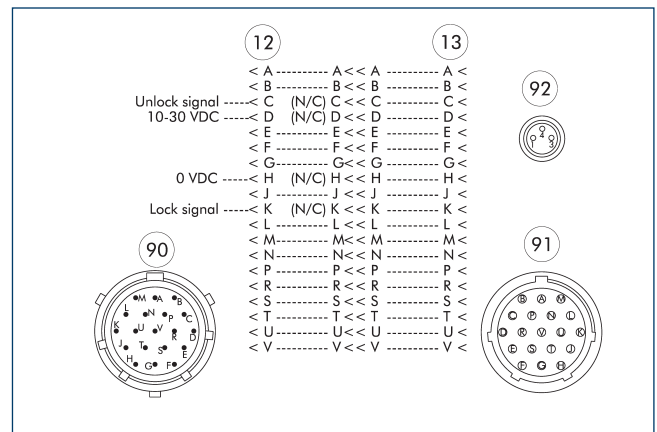
12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

91 Amphenol PT bayonet lock socket, 19 pins

Pin layout for SWO-S19W-K with SWO-S19-A



12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 19 pins

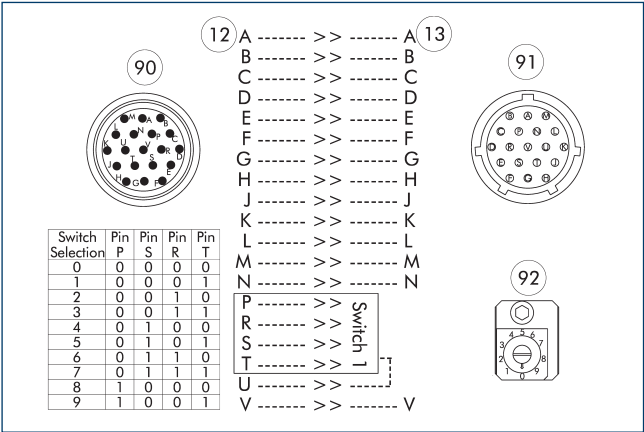
91 Amphenol PT bayonet lock socket, 19 pins

92 M8 socket, A-coded, 3-pin

SWO-E S19

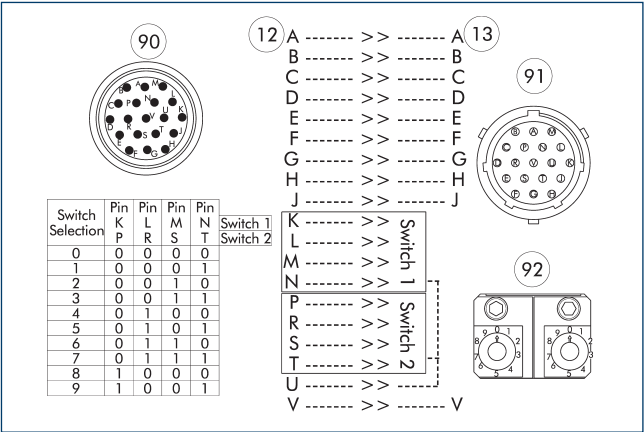
Electric feed-through module

Pin layout for SWO-S19-K mit SWO-S14-A



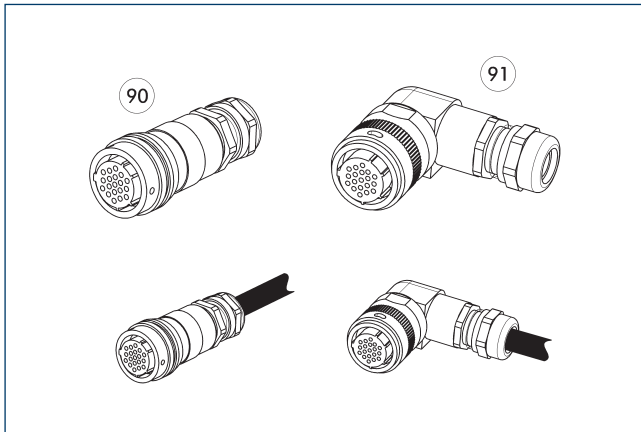
- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 Rotary encoder switch for tool coding for 0-9 tools.

Pin layout for SWO-S19-K with SWO-S10-A



- 12 Master side
- 13 Adapter side
- 90 Amphenol PT bayonet lock connector, 19 pins
- 91 Amphenol PT bayonet lock socket, 19 pins
- 92 Two rotary encoder switches for tool coding for 0-99 tools.

Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

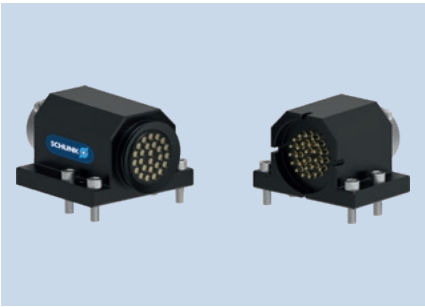
Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-19B-K-90-C	0301294	
Angled cable connector, tool-side		
KAS-19B-A-90-C	0301295	
Angled cable connector with cable, robot-side		
KV-3-SWK-19B-90	0302179	3
KV-5-SWK-19B-90	0302190	5
Angled cable connector with cable, tool-side		
KV-3-SWA-19B-90	0302191	3
Straight cable connector, robot-side		
KAS-19B-K-0-C	0301283	
Straight cable connector, tool-side		
KAS-19B-A-0-C	0301284	
Straight cable connector with cable, robot-side		
KV-3-SWK-19B-0	0302176	3
KV-5-SWK-19B-0	0302177	5
Straight cable connector with cable, tool-side		
KV-3-SWA-19B-0	0302178	3

① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SW0-E S26

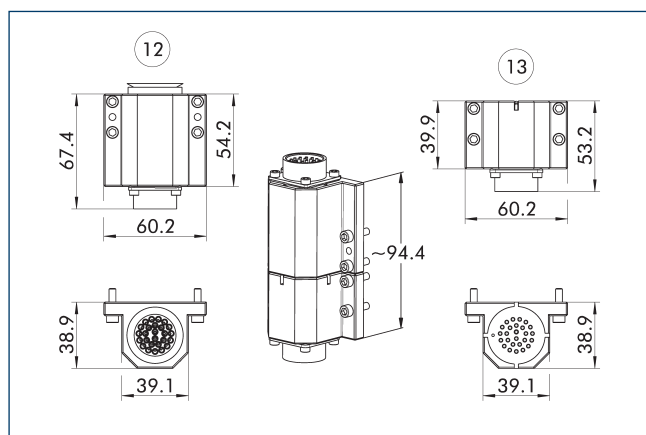
Electric feed-through module



Technical data

Description		SW0-S26-K	SW0-S26-A
ID		9935821	9935822
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Signal	Signal
Weight	[kg]	0.23	0.23
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		26	26
Nominal current	[A]	3	3
Nominal voltage	[V AC]	250/-	250/-
Electrical connection		Amphenol PT bayonet lock connector, 26 pins	Amphenol PT bayonet lock socket, 26 pins
Electrical connection outlet		axial	axial
Special properties		-	-

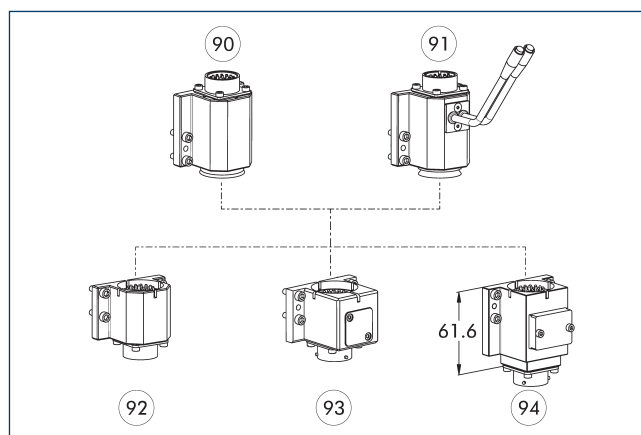
Combination SW0-S26-K and SW0-S26-A



12 Master side

13 Adapter side

Combination possibilities S26



90 SW0-S26-K

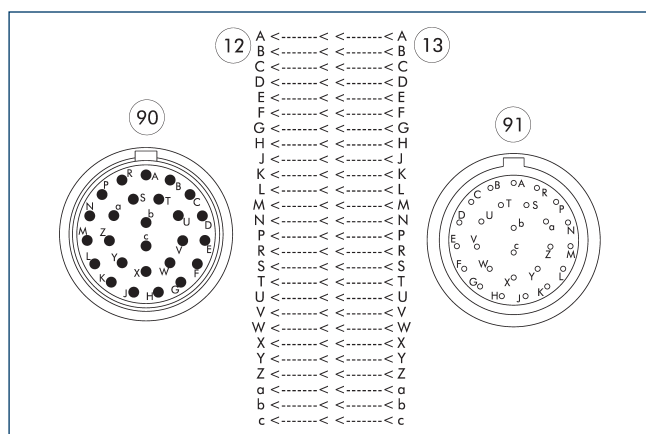
91 SW0-S26W-K

92 SW0-S26-A

93 SW0-S14-A

94 SW0-S10-A

Pin assignment for SW0-S26-K and SW0-S26-A



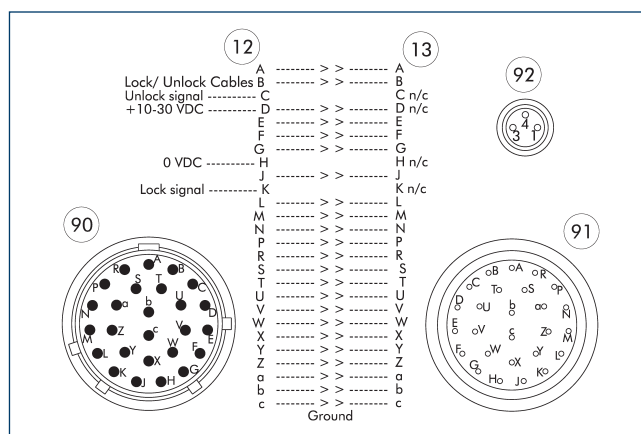
12 Master side

13 Adapter side

90 Amphenol PT bayonet lock connector, 26 pins

91 Amphenol PT bayonet lock socket, 26 pins

Pin assignment for SW0-S26W-K and SW0-S26-A



12 Master side

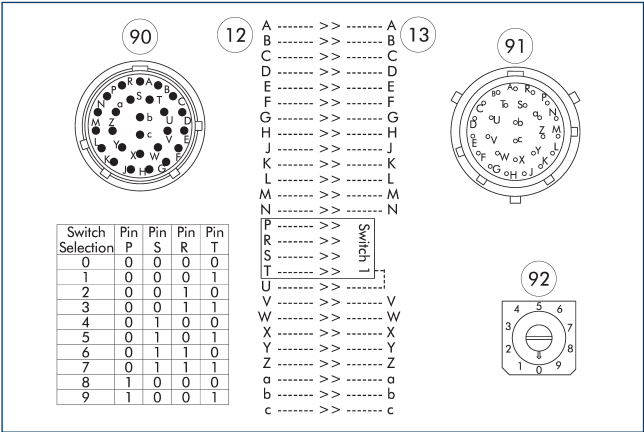
13 Adapter side

90 Amphenol PT bayonet lock connector, 26 pins

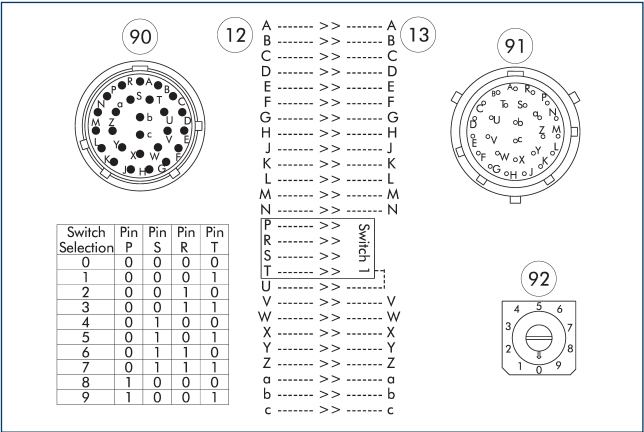
91 Amphenol PT bayonet lock socket, 26 pins

92 M8 socket, A-coded, 3-pin

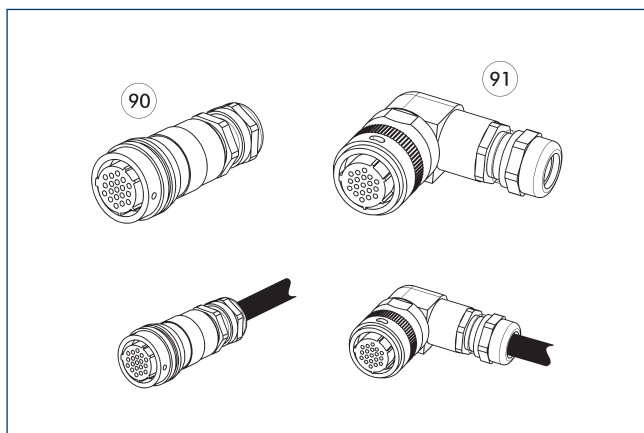
Pin assignment for SWO-S26-K and SWO-S21-A



Pin assignment for SWO-S26-K and SWO-S17-A



Cable plug/cable extension



90 Plug/socket straight

91 Connector/angled socket

Other cable lengths on request.

Description	ID	Length [m]
Angled cable connector, robot-side		
KAS-26B-K-90-C	0301296	
Angled cable connector, tool-side		
KAS-26B-A-90-C	0301297	
Angled cable connector with cable, robot-side		
KV-3-SWK-26B-90	0302185	3
KV-5-SWK-26B-90	0302186	5
Angled cable connector with cable, tool-side		
KV-3-SWA-26B-90	0302187	3
Straight cable connector, robot-side		
KAS-26B-K-0-C	0301290	
Straight cable connector, tool-side		
KAS-26B-A-0-C	0301291	
Straight cable connector with cable, robot-side		
KV-3-SWK-26B-0	0302192	3
KV-5-SWK-26B-0	0302193	5
Straight cable connector with cable, tool-side		
KV-3-SWA-26B-0	0302184	3

① For more detailed information and other cable connectors, see catalog chapter "SW0" or visit our website.

SWO-E X7B

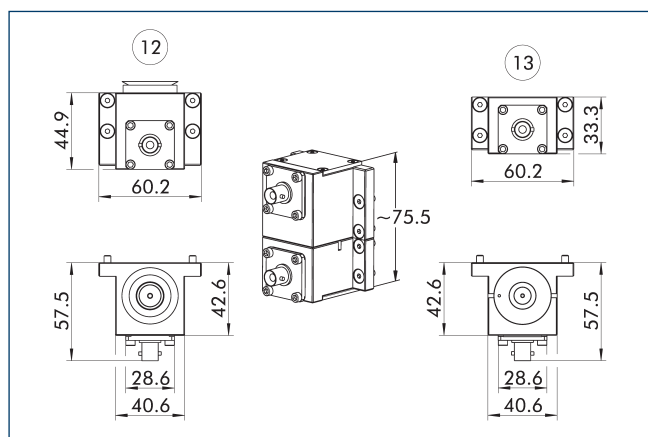
Electric feed-through module



Technical data

Description		SWO-X7B-K	SWO-X7B-A
ID		9948161	9948162
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Signal	Signal
Weight	[kg]	0.16	0.12
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		1	1
Electrical connection		Amphenol RF BNC Buchse	Amphenol RF BNC Buchse
Electrical connection outlet		radial	radial
Special properties		High frequency signals up to 4 GHz, BNC shielding insulated from module housing.	High frequency signals up to 4 GHz, BNC shielding insulated from module housing.

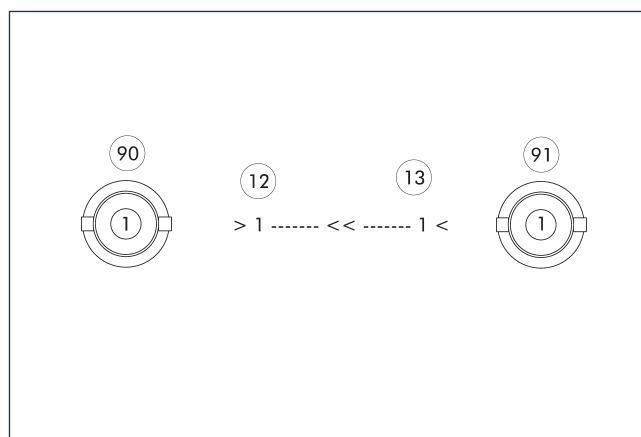
Combination SW0-X7B-K and SW0-X7B-A



12 Master side

13 Adapter side

Pin assignment for SW0-X7B-K and SW0-X7B-A



12 Master side

13 Adapter side

90 Amphenol RF BNC Buchse

91 Amphenol RF BNC Buchse

SWO-E X7C

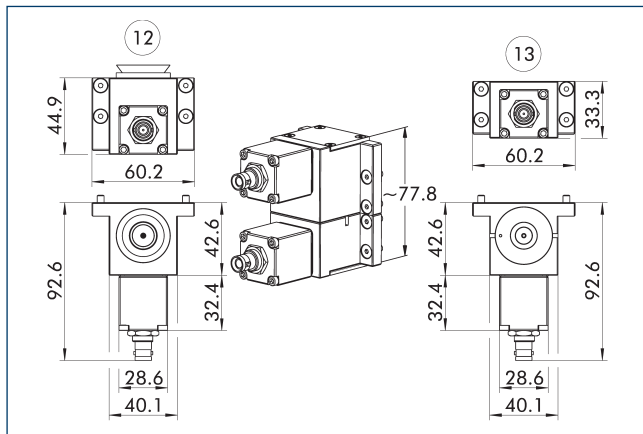
Electric feed-through module



Technical data

Description		SWO-X7C-K	SWO-X7C-A
ID		9951826	9951827
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Signal	Signal
Weight	[kg]	0.21	0.17
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		1	1
Nominal current	[A]	3	3
Nominal voltage	[V AC]	2000/-	2000/-
Electrical connection		Bulkhead SHV	Bulkhead SHV
Electrical connection outlet		radial	radial
Special properties		For ultrasound welding and cutting applications, shielding placed on module housing.	For ultrasound welding and cutting applications, shielding placed on module housing.

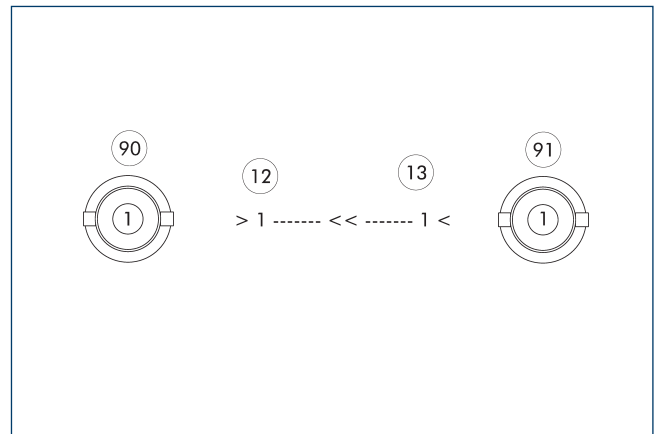
Combination SWO-X7C-K and SWO-X7C-A



12 Master side

13 Adapter side

Pin assignment for SWO-X7C-K and SWO-X7C-A



12 Master side

13 Adapter side

90 Bulkhead SHV

91 Bulkhead SHV

SWO-E X7G

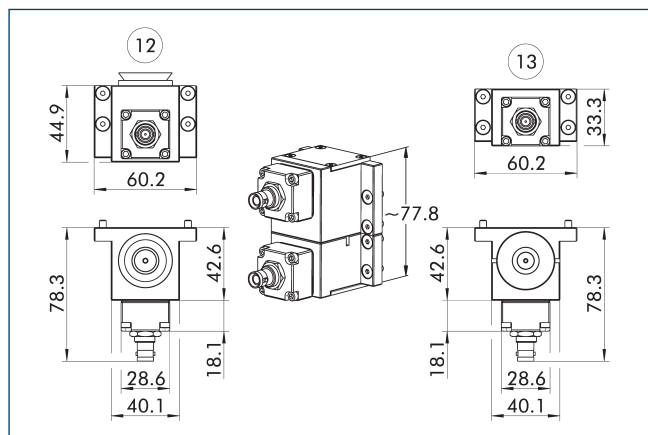
Electric feed-through module



Technical data

Description		SWO-X7G-K	SWO-X7G-A
ID		9958865	9958866
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Signal	Signal
Weight	[kg]	0.18	0.14
Min./max. ambient temperature	[°C]	5/60	5/60
Number of pin contacts		1	1
Nominal current	[A]	3	3
Nominal voltage	[V AC]	2000/-	2000/-
Electrical connection		Bulkhead SHV	Bulkhead SHV
Electrical connection outlet		radial	radial
Special properties		For ultrasound welding and cutting applications, shielding insulated from module housing.	For ultrasound welding and cutting applications, shielding insulated from module housing.

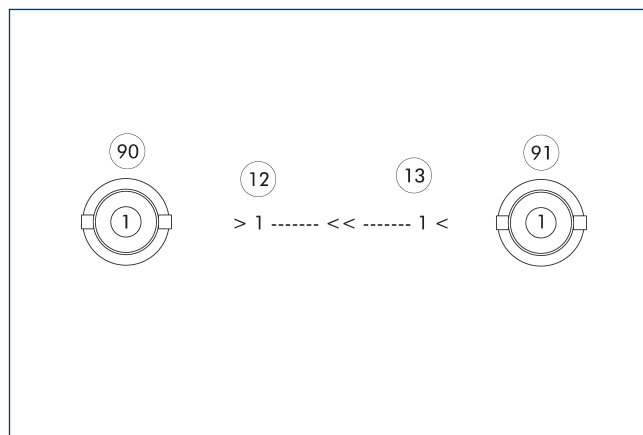
Combination SW0-X7G-K and SW0-X7G-A



12 Master side

13 Adapter side

Pin assignment for SW0-X7G-K and SW0-X7G-A



12 Master side

13 Adapter side

90 Bulkhead SHV

91 Bulkhead SHV

SWO-E MT14

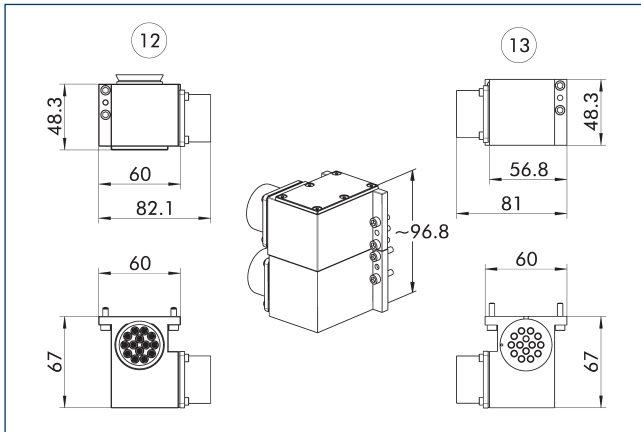
Electric feed-through module



Technical data

Description		SWO-MT14A-K	SWO-MT14-A
ID		9948446	9938528
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Power	Power
Weight	[kg]	0.34	0.34
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Power supply			
Number of pin contacts		14	14
Nominal current	[A]	13	13
Nominal voltage	[V AC][V DC]	500/700	500/700
Electrical connection		Amphenol MS threaded cap connector, 19 pins	Amphenol MS threaded cap socket, 19 pins
Electrical connection outlet		tangential	tangential
Special properties		Right cable outlet	Right cable outlet

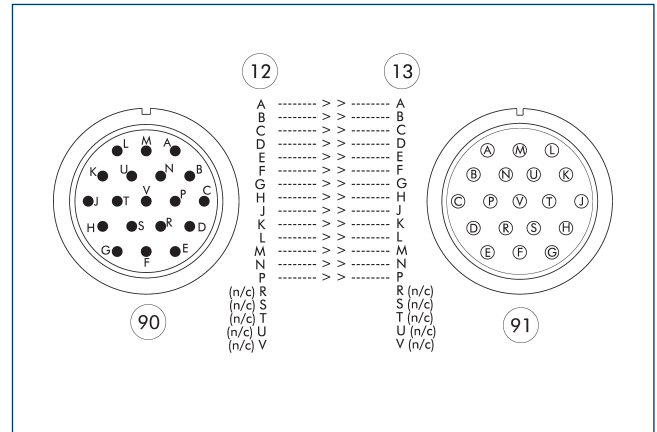
Combination of SWO-MT14A-K and SWO-MT14-A



12 Master side

13 Adapter side

Pin assignment for SWO-MT14A-K and SWO-MT14-A



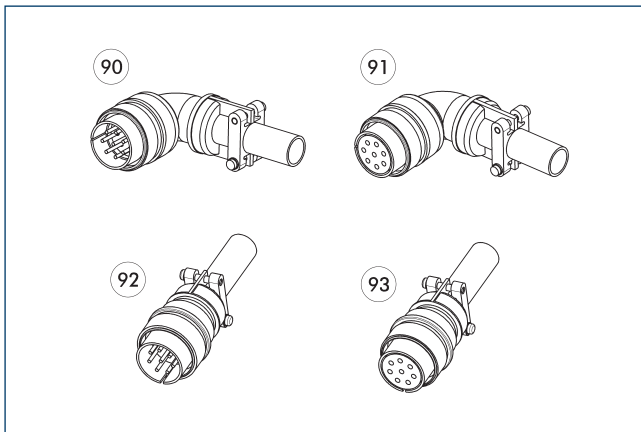
12 Master side

13 Adapter side

90 Amphenol MS threaded cap connector, 19 pins

91 Amphenol MS threaded cap socket, 19 pins

Cable connector



90 Angled plug

92 Straight plug

91 Angled socket

93 Straight socket

Description	ID
Angled cable connector, robot-side	
KAS-19G-K-90	0301236
Angled cable connector, tool-side	
KAS-19G-A-90	0301237
Straight cable connector, robot-side	
KAS-19G-K-0	0301232
Straight cable connector, tool-side	
KAS-19G-A-0	0301233

① For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SWO-E MT8

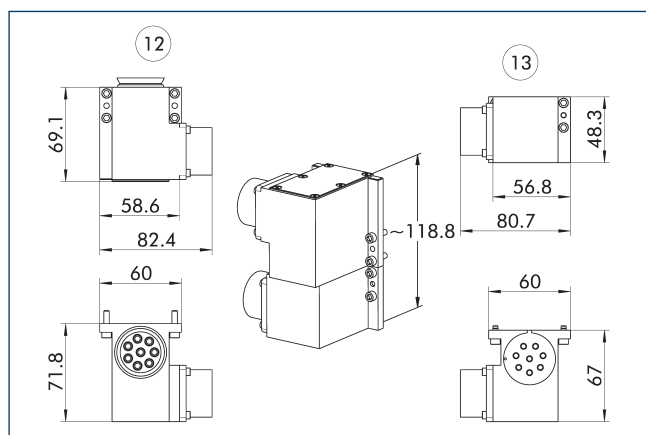
Electric feed-through module



Technical data

Description		SWO-MT8-K	SWO-MT8L-K	SWO-MT8-A	SWO-MT8L-A
ID		9937157	9949318	9937158	9949317
Suitable on		Quick-change master	Quick-change master	Quick-change adapter	Quick-change adapter
Screw connection diagram		J	J	J	J
Transmission type		Power	Power	Power	Power
Weight	[kg]	0.48	0.48	0.33	0.33
Min./max. ambient temperature	[°C]	5/60	5/60	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)	IP65 (only when connected)
Power supply					
Number of pin contacts		8	8	8	8
Nominal current	[A]	20	20	20	20
Nominal voltage	[V AC][V DC]	500/700	500/700	500/700	500/700
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

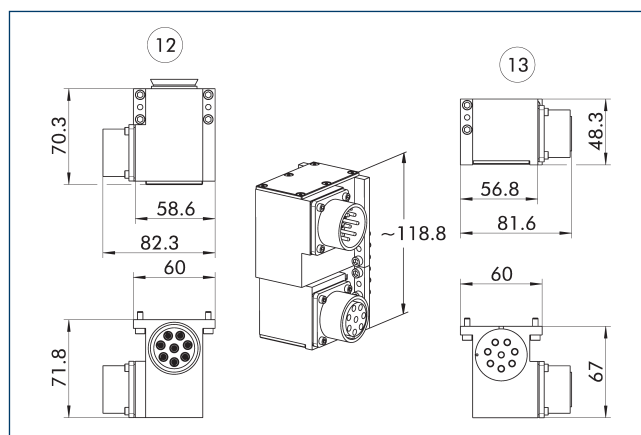
Combination SWO-MT8-K and SWO-MT8-A



12 Master side

13 Adapter side

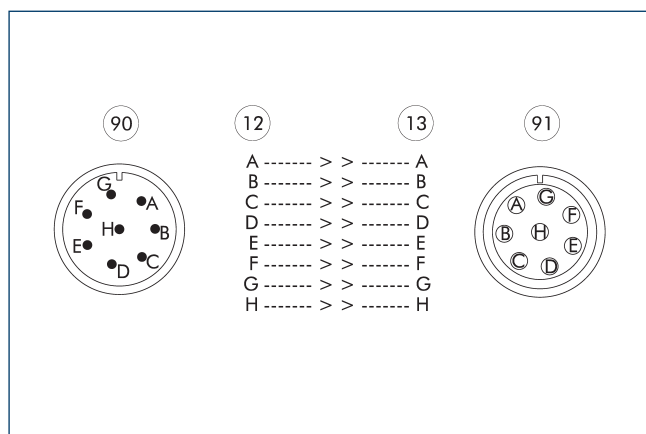
Combination SWO-MT8L-K and SWO-MT8L-A



12 Master side

13 Adapter side

Pin assignment for SWO-MT8-K and SWO-MT8-A, or SWO-MT8L-K and SWO-MT8L-A



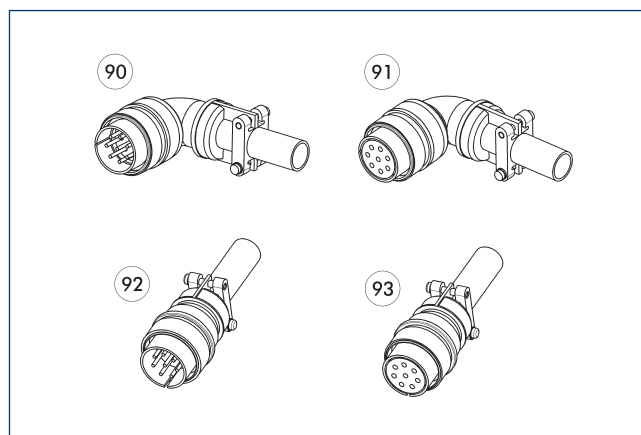
12 Master side

13 Adapter side

90 Amphenol MS threaded cap connector, 8 pins

91 Amphenol MS threaded cap socket, 8 pins

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 For more detailed information and other cable connectors, see catalog chapter "SWO" or visit our website.

SW0-E MT9

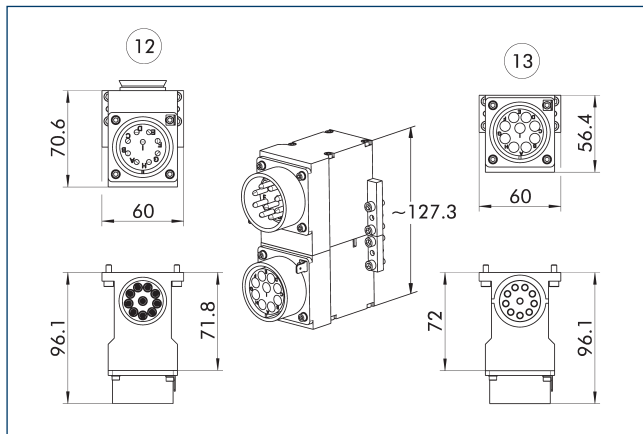
Electric feed-through module



Technical data

Description		SW0-MT9-K	SW0-MT9-A
ID		9955846	9955847
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Power	Power
Weight	[kg]	0.56	0.49
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Power supply			
Number of pin contacts		9	9
Nominal current	[A]	28	28
Nominal voltage	[V AC][V DC]	500/700	500/700
Electrical connection		Amphenol MS threaded cap connector, 9 pins	Amphenol MS threaded cap socket, 9 pins
Electrical connection outlet		radial	radial
Special properties		-	-

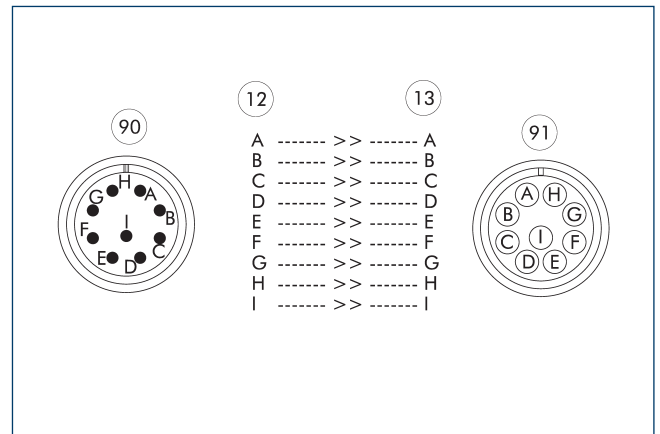
Combination SW0-MT9-K and SW0-MT9-A



12 Master side

13 Adapter side

Pin assignment for SW0-MT9-K and SW0-MT9-A



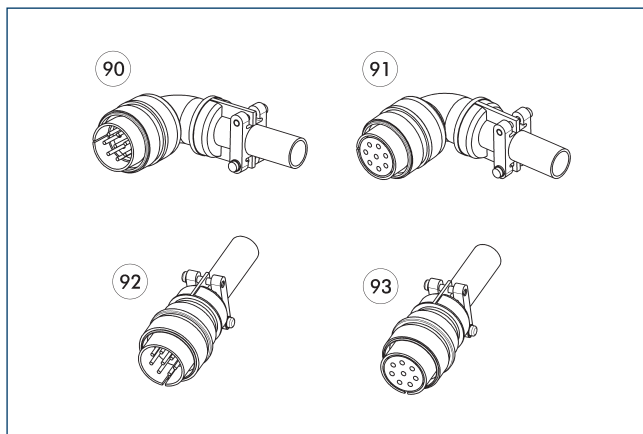
12 Master side

13 Adapter side

90 Amphenol MS threaded cap connector, 9 pins

91 Amphenol MS threaded cap socket, 9 pins

Cable connector



90 Angled plug

91 Angled socket

92 Straight plug

93 Straight socket

Description	ID
Angled cable connector, robot-side	
KAS-09G-K-90	0301238
Angled cable connector, tool-side	
KAS-09G-A-90	0301239

For more detailed information and other cable connectors, see catalog chapter "SW0" or visit our website.

SWO-E REP10

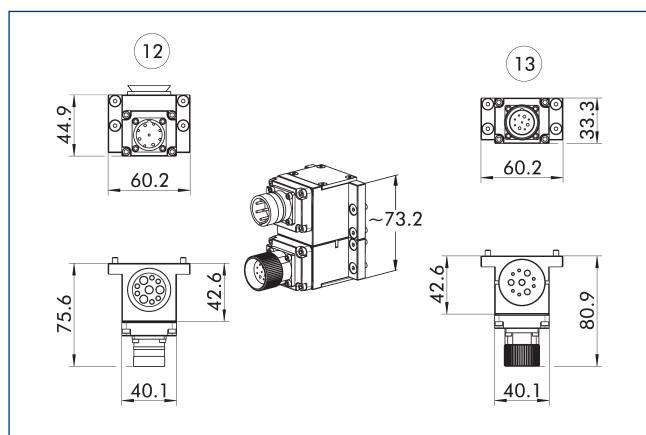
Electric feed-through module



Technical data

Description		SWO-REP10-K	SWO-REP10-A
ID		9965723	9965724
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Servo	Servo
Weight	[kg]	0.2	0.18
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		6	6
Nominal current	[A]	5	5
Nominal voltage	[V AC]	150/-	150/-
Electrical connection		M23 connector, 9-pin	M23 socket, 9-pin
Electrical connection outlet		radial	radial
Power supply			
Number of pin contacts		3	3
Nominal current	[A]	15	15
Nominal voltage	[V AC]	150/-	150/-
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.

Combination SWO-REP10-K and SWO-REP10-A



12 Master side

13 Adapter side

Pin assignment for SWO-REP10-K and SWO-REP10-A

12

connector shell

1 < Brake - 2 < 2
 2 < Brake + 3 < 3
 3 < Spare 8 < 8
 4 < Phase U 1 < 1
 5 < Thermal Switch- 5 < 5
 6 < Phase V 4 < 4
 7 < Thermal Switch+ 6 < 6
 8 < Phase W 7 < 7
 9 < Ground 10 < 10

13

connector shell

1 < Brake - 1
 2 < Brake + 2
 3 < Spare 3
 4 < Phase U 4
 5 < Thermal Switch- 5
 6 < Phase V 6
 7 < Thermal Switch+ 7
 8 < Phase W 8
 9 < Ground 9

12 Master side

13 Adapter side

90 M23 connector, 9-pin

91 M23 socket, 9-pin

SWO-E RES10

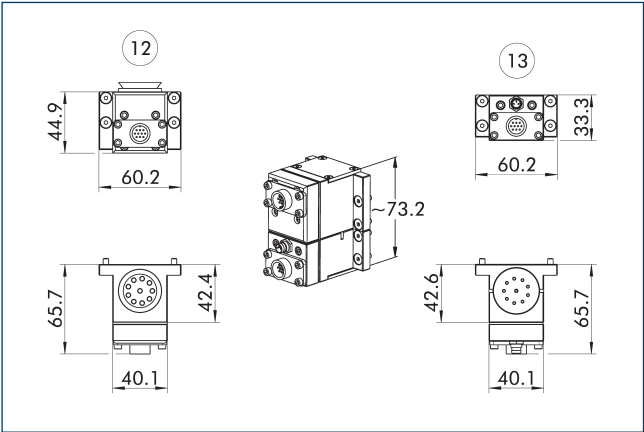
Electric feed-through module



Technical data

Description		SWO-RES10-K	SWO-RES10-A
ID		1331663	1331667
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Servo	Servo
Weight	[kg]	0.23	0.16
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		10	10
Nominal current	[A]	3	3
Nominal voltage	[V AC][V DC]	150/150	150/150
Electrical connection		JAE interface	JAE interface
Electrical connection outlet		radial	radial
Special properties		-	Additional M8 connector (A-coded, 3-pin) for optional rechargeable battery for tool side power supply in decoupled condition.

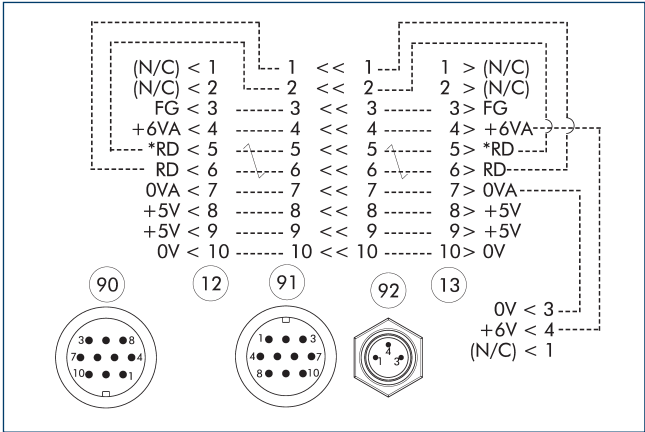
Combination SWO-RES10-K and SWO-RES10-A



12 Master side

13 Adapter side

Pin assignment for SWO-RES10-K and SWO-RES10-A



12 Master side

13 Adapter side

90 JAE interface

91 JAE interface

92 M8 connector, A-coded, 3-pin

SWO-E RES10B

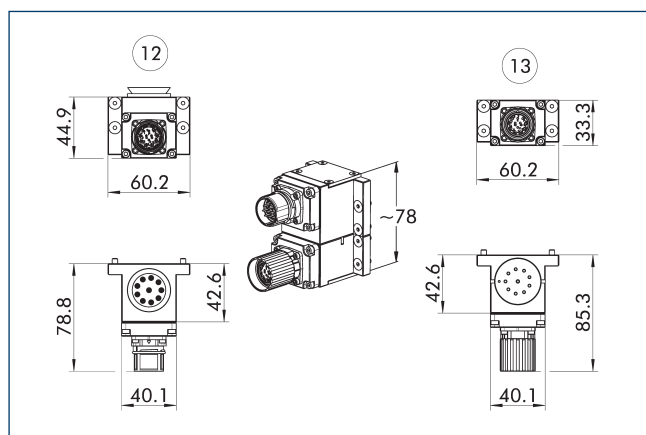
Electric feed-through module



Technical data

Description		SWO-RES10B-K	SWO-RES10B-A
ID		1330274	1330275
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Servo	Servo
Weight	[kg]	0.3	0.2
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Number of pin contacts		9	9
Nominal current	[A]	3.5	3.5
Nominal voltage	[V AC][V DC]	160/160	160/160
Electrical connection		M23 connector, 12-pin	M23 socket, 12-pin
Electrical connection outlet		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.

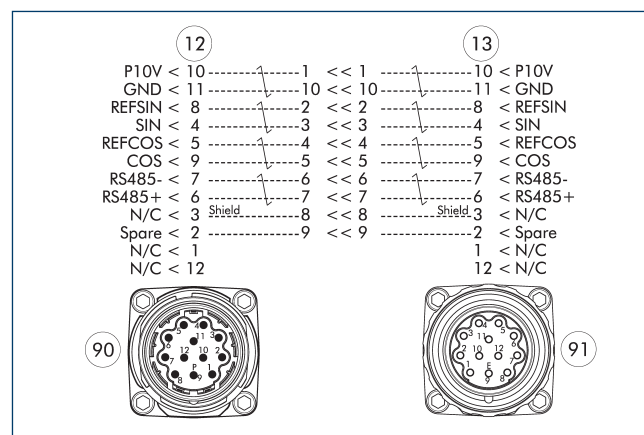
Combination SWO-RES10B-K and SWO-RES10B-A



12 Master side

13 Adapter side

Pin assignment for SWO-RES10B-K and SWO-RES10B-A



12 Master side

13 Adapter side

90 M23 connector, 12-pin

91 M23 socket, 12-pin

SWO-E KE7

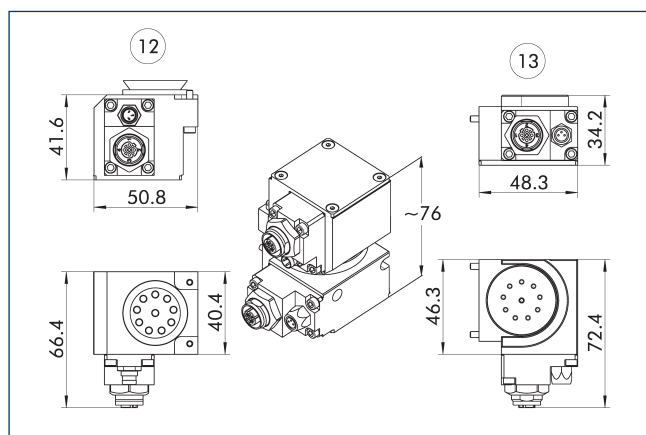
Electric feed-through module



Technical data

Description		SWO-KE7-K	SWO-KE7-A
ID		9960993	9960994
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		K	K
Transmission type		Communication	Communication
Weight	[kg]	0.16	0.15
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Bus system		EtherNet	EtherNet
Transmission Speed	[Mbit/s]	100	100
Electrical connection		M12, Female D-Coded connector	M12, Female D-Coded connector
Electrical connection outlet		radial	radial
Power supply			
Number of pin contacts		3	3
Nominal current	[A]	4	4
Nominal voltage	[V AC]	125/-	125/-
Electrical connection		M8 connector, A-coded, 3-pin	M8 socket, A-coded, 3-pin
Electrical connection outlet		radial	radial
Special properties		Supports Power-over-Ethernet (PoE).	Supports Power-over-Ethernet (PoE).

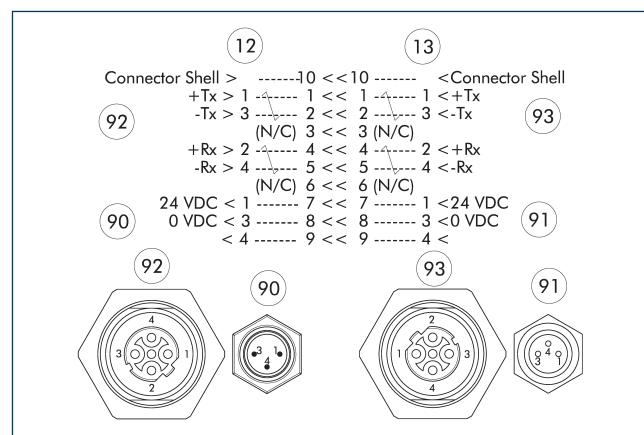
Combination SWO-KE7-K and SWO-KE7-A



12 Master side

13 Adapter side

Pin assignment for SWO-KE7-K and SWO-KE7-A



12 Master side

13 Adapter side

90 M8 connector, A-coded, 3-pin

91 M8 socket, A-coded, 3-pin

92 M12, Female D-Coded connector

93 M12, Female D-Coded connector

SWO-E RD5

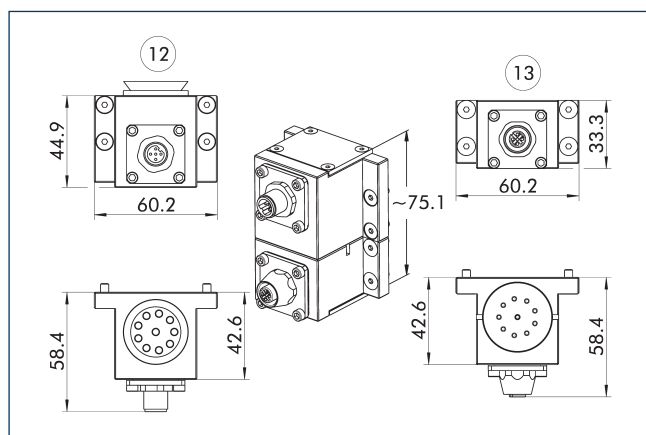
Electric feed-through module



Technical data

Description		SWO-RD5-K	SWO-RD5-A
ID		9872358	9872359
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Communication	Communication
Weight	[kg]	0.19	0.14
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Bus system		DeviceNet, IO-Link Class B	DeviceNet, IO-Link Class B
Electrical connection		M12 connector, A-coded	M12 socket, A-coded
Electrical connection outlet		radial	radial
Special properties		-	-

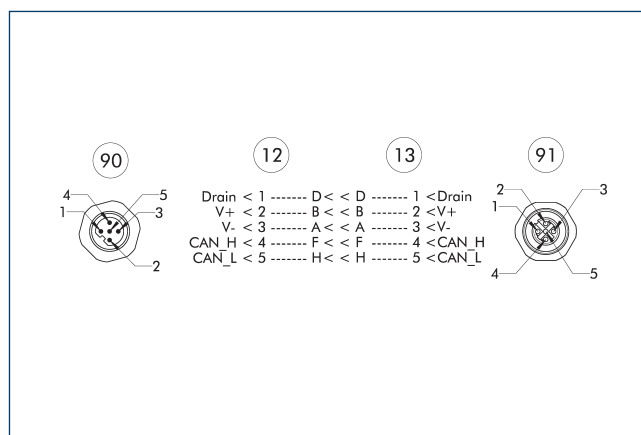
Combination SWO-RD5-K and SWO-RD5-A



12 Master side

13 Adapter side

Pin assignment for SWO-RD5-K and SWO-RD5-A



12 Master side

13 Adapter side

90 M12 connector, A-coded

91 M12 socket, A-coded

SWO-E RE10

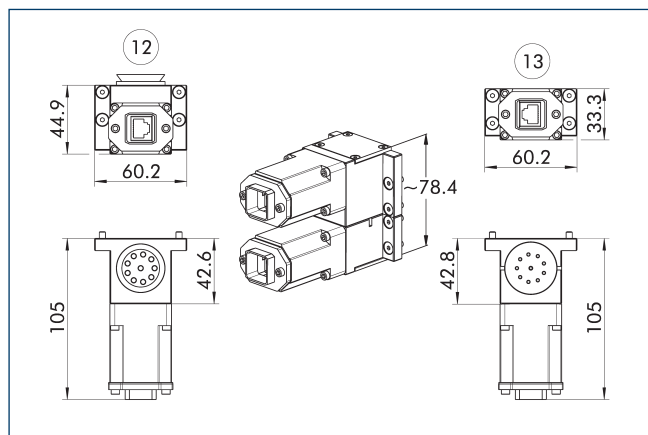
Electric feed-through module



Technical data

Description		SWO-RE10-K	SWO-RE10-A
ID		9959873	9959874
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Communication	Communication
Weight	[kg]	0.25	0.2
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Bus system		EtherNet	EtherNet
Transmission Speed	[Gbit/s]	1	1
Electrical connection		AIDA PushPull-RJ45	AIDA PushPull-RJ45
Electrical connection outlet		radial	radial
Special properties		Supports Power-over-Ethernet (PoE) and complies with CAT5e requirements.	Supports Power-over-Ethernet (PoE) and complies with CAT5e requirements.

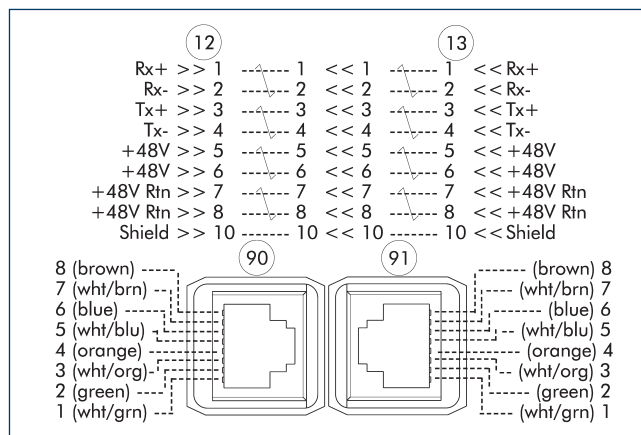
Combination SW0-RE10-K and SW0-RE10-A



12 Master side

13 Adapter side

Pin assignment for SW0-RE10-K and SW0-RE10-A



12 Master side

13 Adapter side

90 AIDA PushPull-RJ45

91 AIDA PushPull-RJ45

SWO-E RE5

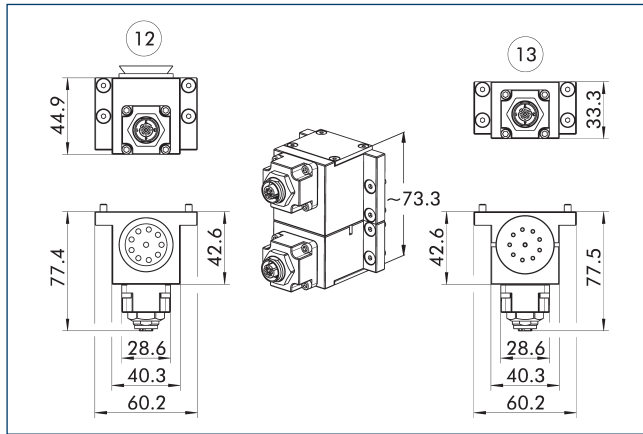
Electric feed-through module



Technical data

Description		SWO-RE5-K	SWO-RE5-A
ID		9957444	9957445
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Communication	Communication
Weight	[kg]	0.18	0.14
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Bus system		EtherNet	EtherNet
Transmission Speed	[Mbit/s]	100	100
Electrical connection		M12, Female D-Coded connector	M12, Female D-Coded connector
Electrical connection outlet		radial	radial
Special properties		Supports Power-over-Ethernet (PoE).	Supports Power-over-Ethernet (PoE).

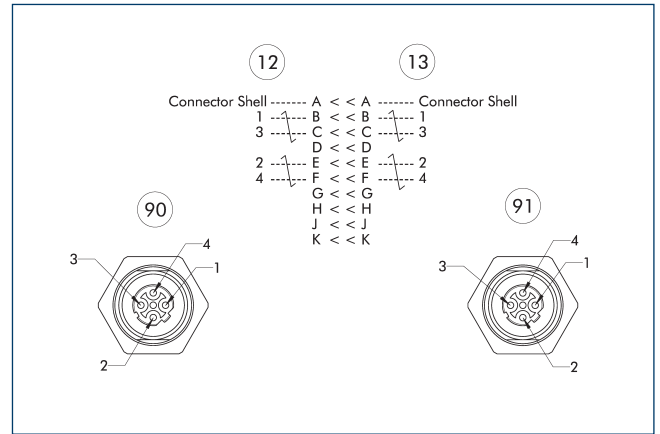
Combination SW0-RE5-K and SW0-RE5-A



12 Master side

13 Adapter side

Pin layout for SW0-RE5-K with SW0-RE5-A



12 Master side

13 Adapter side

90 M12, Female D-Coded connector

91 M12, Female D-Coded connector

SWO-E RP5

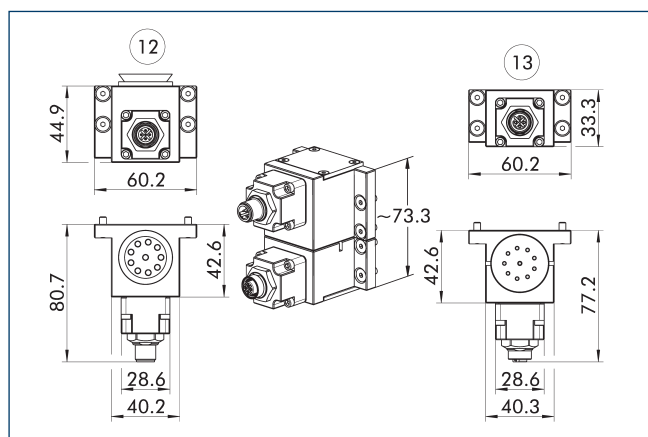
Electric feed-through module



Technical data

Description		SWO-RP5-A
ID		9962721
Suitable on		Quick-change adapter
Screw connection diagram		J
Transmission type		Communication
Weight	[kg]	0.15
Min./max. ambient temperature	[°C]	5/60
IP protection class		IP65 (only when connected)
Bus system		PROFIBUS
Electrical connection		M12 bushing, B coded
Electrical connection outlet		radial
Special properties		-

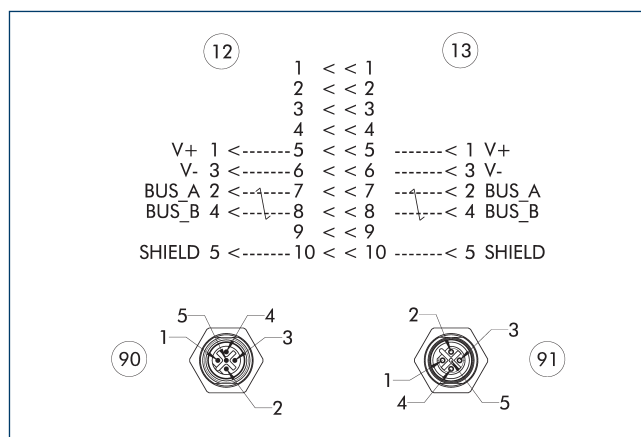
Combination SWO RP5-K and SWO RP5-A



12 Master side

13 Adapter side

Pin layout for SWO-RP5-K with SWO-RP5-A



12 Master side

13 Adapter side

90 M12 connector, B-coded

91 M12 bushing, B coded

SWO-E TD

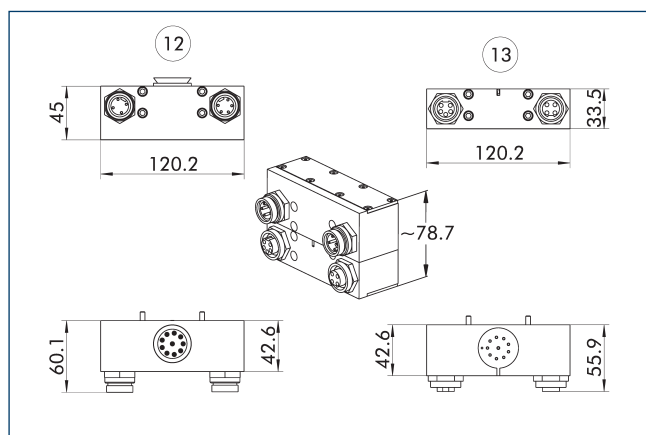
Electric feed-through module



Technical data

Description		SWO-TD-K	SWO-TD-A
ID		9942105	9942106
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Communication	Communication
Weight	[kg]	0.63	0.45
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Bus system		DeviceNet	DeviceNet
Electrical connection		7/8" connector, 5-pin	7/8" socket, 5-pin
Electrical connection outlet		radial	radial
Power supply			
Number of pin contacts		4	4
Nominal current	[A]	5	5
Nominal voltage	[V AC]	24/-	24/-
Electrical connection		7/8" connector, 4-pin	7/8" socket, 4-pin
Electrical connection outlet		radial	radial
Special properties		Simultaneous feeding through of DeviceNet and 4-pin voltage supply.	Simultaneous feeding through of DeviceNet and 4-pin voltage supply.

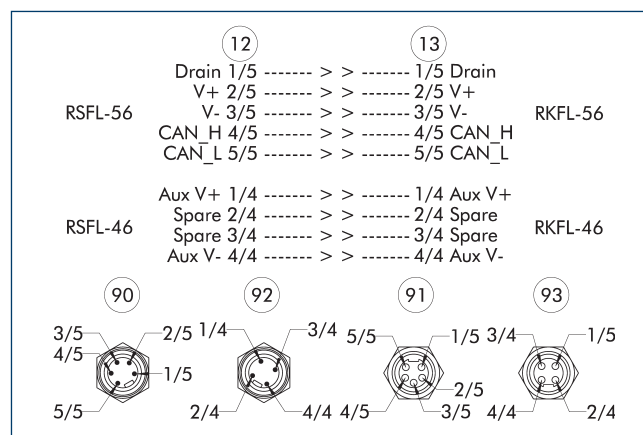
Combination of SWO-TD-K and SWO-TD-A



12 Master side

13 Adapter side

Pin layout for SWO-TD-K with SWO-TD-A



12 Master side

13 Adapter side

90 7/8" connector, 5-pin

91 7/8" socket, 5-pin

92 7/8" connector, 4-pin

93 7/8" socket, 4-pin

SWO-E TE

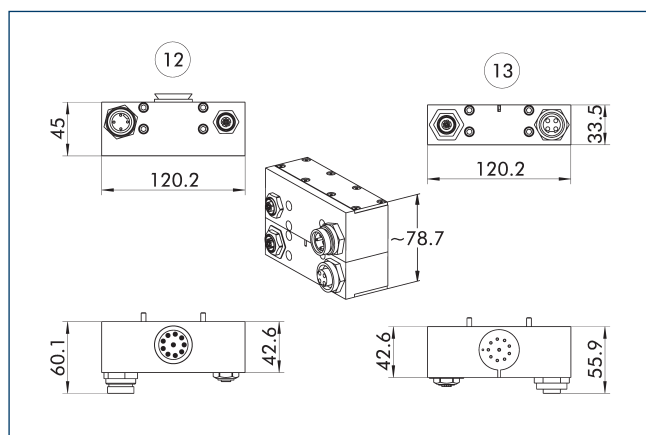
Electric feed-through module



Technical data

Description		SWO-TE-K	SWO-TE-A
ID		9900049	9900050
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Communication	Communication
Weight	[kg]	0.49	0.37
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Bus system		EtherNet/IP, PROFINET	EtherNet/IP, PROFINET
Transmission Speed	[Mbit/s]	10/100	10/100
Electrical connection		M12, Female D-Coded connector	M12, Female D-Coded connector
Electrical connection outlet		radial	radial
Power supply			
Number of pin contacts		4	4
Nominal current	[A]	5	5
Nominal voltage	[V AC]	600/-	600/-
Electrical connection		7/8" connector, 4-pin	7/8" socket, 4-pin
Electrical connection outlet		radial	radial
Special properties		Simultaneous feeding through of EtherNet and 4-pin voltage supply.	Simultaneous feeding through of EtherNet and 4-pin voltage supply.

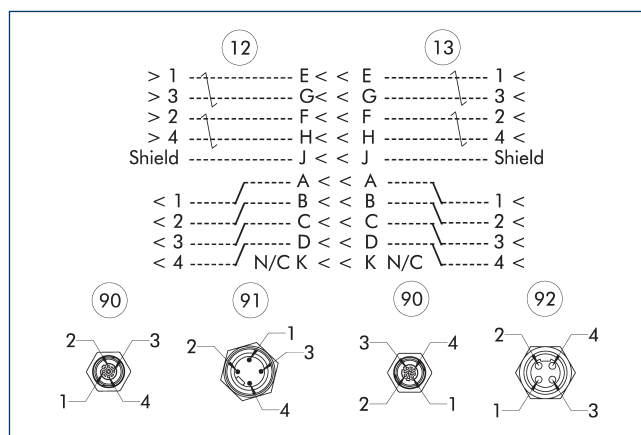
Combination SWO-TE-K and SWO-TE-A



12 Master side

13 Adapter side

Pin assignment for SWO-TE-K and SWO-TE-A



12 Master side

13 Adapter side

90 M12, Female D-Coded connector

91 7/8" connector, 5-pin

92 7/8" socket, 5-pin

SWO-E TP

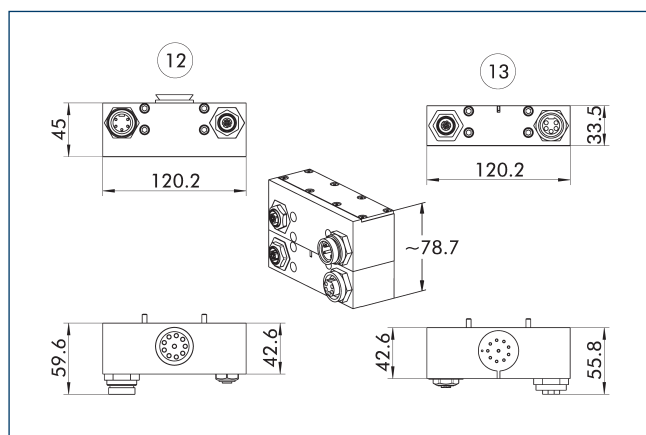
Electric feed-through module



Technical data

Description		SWO-TP-K	SWO-TP-A
ID		9871166	9871165
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Communication	Communication
Weight	[kg]	0.5	0.38
Min./max. ambient temperature	[°C]	5/60	5/60
IP protection class		IP65 (only when connected)	IP65 (only when connected)
Bus system		PROFINET, EtherNet	PROFINET, EtherNet
Transmission Speed	[Mbit/s]	10/100	10/100
Electrical connection		M12, Female D-Coded connector	M12, Female D-Coded connector
Electrical connection outlet		radial	radial
Power supply			
Number of pin contacts		5	5
Nominal current	[A]	5	5
Nominal voltage	[V AC]	600/-	600/-
Electrical connection		7/8" connector, 5-pin	7/8" socket, 5-pin
Electrical connection outlet		radial	radial
Special properties		Simultaneous feeding through of PROFINET/EtherNet and 5-pin voltage supply.	Simultaneous feeding through of PROFINET/EtherNet and 5-pin voltage supply.

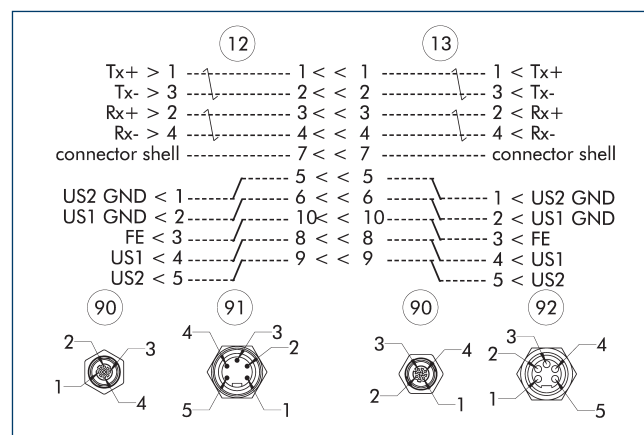
Combination SWO-TP-K and SWO-TP-A



12 Master side

13 Adapter side

Pin layout for SWO-TP-K with SWO-TP-A



12 Master side

13 Adapter side

90 M12, Female D-Coded connector

91 7/8" connector, 5-pin

92 7/8" socket, 5-pin

SWO-E PGO

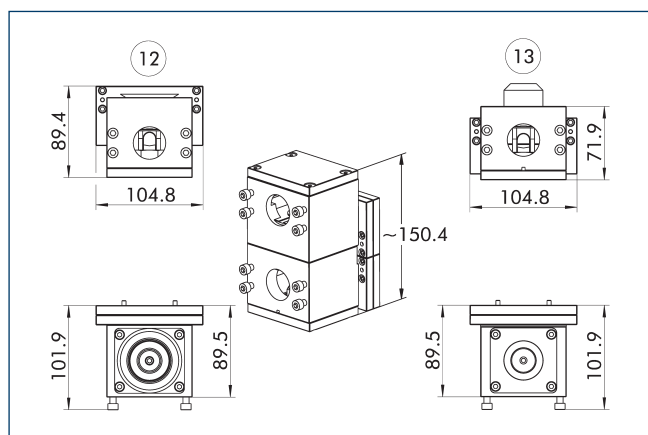
Electric feed-through module



Technical data

Description		SWO-PG0-4568-K	SWO-PG0-4570-A
ID		9941343	9941344
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Welding	Welding
Weight	[kg]	0.98	0.87
Min./max. ambient temperature	[°C]	5/60	5/60
Power supply			
Number of pin contacts		1	1
Nominal current	[A]	600	600
Nominal voltage	[V AC]	800/-	800/-
Electrical connection		Screw terminal 105 mm²/AWG 4	Screw terminal 105 mm²/AWG 4
Electrical connection outlet		radial	radial
Special properties		Suitable for grounding in welding applications.	Suitable for grounding in welding applications.

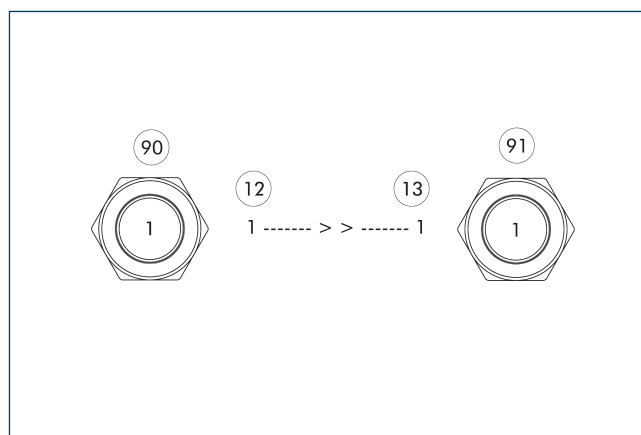
Combination SWO-PGO-K and SWO-PGO-A



12 Master side

13 Adapter side

Pin assignment for SWO-PGO-K and SWO-PGO-A



12 Master side

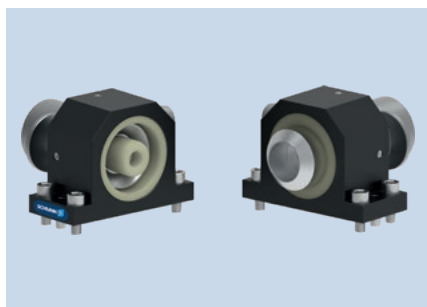
13 Adapter side

90 Screw terminal 105 mm²/AWG 4

91 Screw terminal 105 mm²/AWG 4

SWO-E PG3

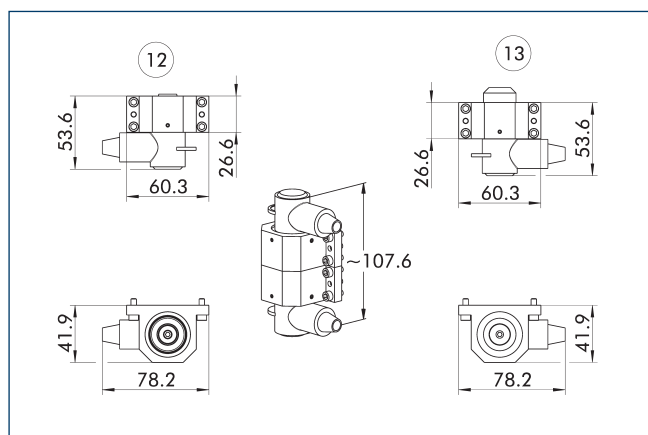
Electric feed-through module



Technical data

Description		SWO-PG3-K	SWO-PG3-A
ID		1316807	1316809
Suitable on		Quick-change master	Quick-change adapter
Screw connection diagram		J	J
Transmission type		Welding	Welding
Weight	[kg]	0.18	0.2
Min./max. ambient temperature	[°C]	5/60	5/60
Power supply			
Number of pin contacts		1	1
Nominal current	[A]	200	200
Nominal voltage	[V AC]	600/-	600/-
Electrical connection		M8 for ring cable lug up to 35 mm²/AWG 2	M8 for ring cable lug up to 35 mm²/AWG 2
Electrical connection outlet		Can be radially swiveled	Can be radially swiveled
Special properties		Suitable for grounding in welding applications.	Suitable for grounding in welding applications.

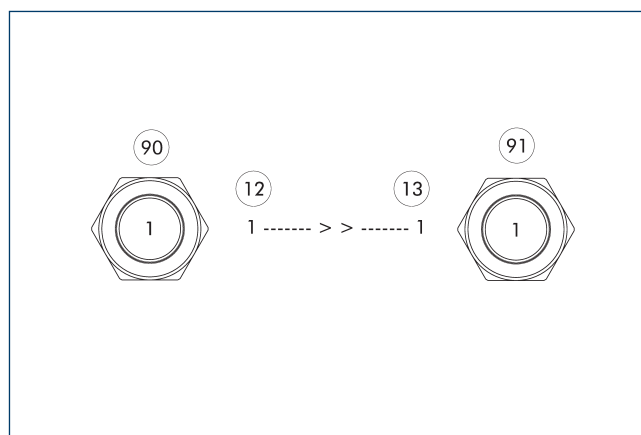
Combination SW0-PG3-K and SW0-PG3-A



12 Master side

13 Adapter side

Pin assignment for SW0-PG3-K and SW0-PG3-A



12 Master side

13 Adapter side

90 M8 for ring cable lug up to 35 mm²/AWG 2

91 M8 for ring cable lug up to 35 mm²/AWG 2



SCHUNK GmbH & Co. KG
Spann- und Greiftechnik

Bahnhofstr. 106 - 134
D-74348 Lauffen/Neckar
Tel. +49-7133-103-0
Fax +49-7133-103-2399
info@de.schunk.com
schunk.com

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