

Superior Clamping and Gripping



Product Information

Miniature swivel Head SKE

Compact. Fast. Productive. SKE miniature swivel head

90° swivel head with single piston drive

Field of application

For use in clean environments such as assembly or packaging zones and for light external loads

Advantages - Your benefits

90° swivel head with integrated end position stops

Low weight and compact design for short cycle times

Standardized interfaces to many grippers in the RH series for fast gripper assembly without using intermediate plates









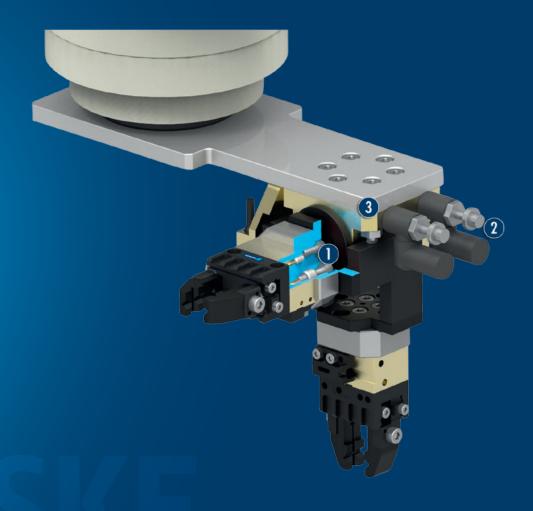




Functional description

A double-acting piston integrated in the housing turns the die 90° swivel axis. The piston speed is restricted by flow

control couplings, ensuring that it travels cleanly to the end position.



- ① Screw connection diagram for adapter plates
- **② Flow control valves**
- 3 End position adjustability

CAD data, operating manuals and other current product documents can be found online.

General notes about the series

Housing material: Aluminum

Material of the (internal) functional components: Steel

Actuation: pneumatic, with filtered compressed air as per ISO 8573-1:2010 [7:4:4].

Operating principle: double acting piston with geared transmission

Scope of delivery: Small parts for mounting, flow control valves, assembly and operating manual with a manufacturer's declaration.

Warranty: 24 months

Repeat accuracy: is defined as a distribution of the end position for 100 consecutive cycles.

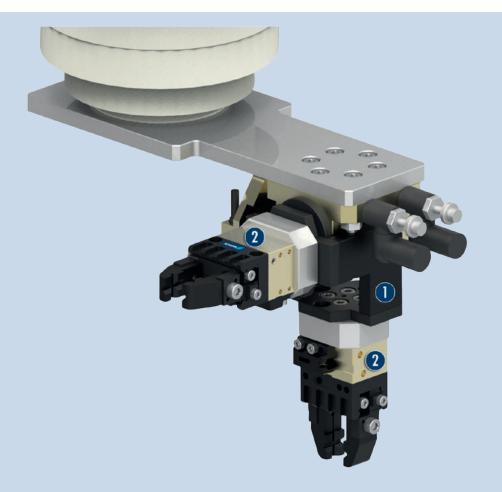
Cycle time: is the rotation time of pinion / flange around the nominal rotation angle. Valve switching times, hose filling times, or PLC reaction times are not a part of this and are to be considered when cycle times are calculated.

Direct adaption of grippers: Some RH grippers can be directly flange-mounted to the SKE without an adapter plate. In this case, please note the screw connection diagram.

Application example

Robot/gripper module for the removal and loading of various axes and bolts

- SKE swivel head
- MPG-plus 2-finger parallel gripper



SCHUNK offers more ...

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









Inductive proximity switches



Pressure maintenance valve



Sensor cables



MPZ 3-finger centric gripper



Sensor distributor



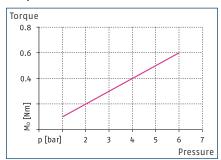
Pneumatic Small Parts Gripper MPG-plus

Additional information regarding the products can be found on the following product pages or at www.schunk.com. Please contact us for further information: SCHUNK technical hotline +49-7133-103-2696

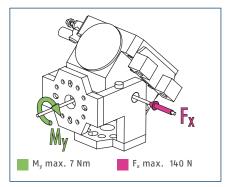
Options and special information

Please note that suitable emergency stop scenarios (e.g. controlled shut down) and restarting scenarios (e.g. pressure build-up valves, appropriate valve switching sequences) are needed for all pneumatic actuators. Cutting off the pressure in an uncontrolled manner could lead to undefined states and behavior.





Forces and moments

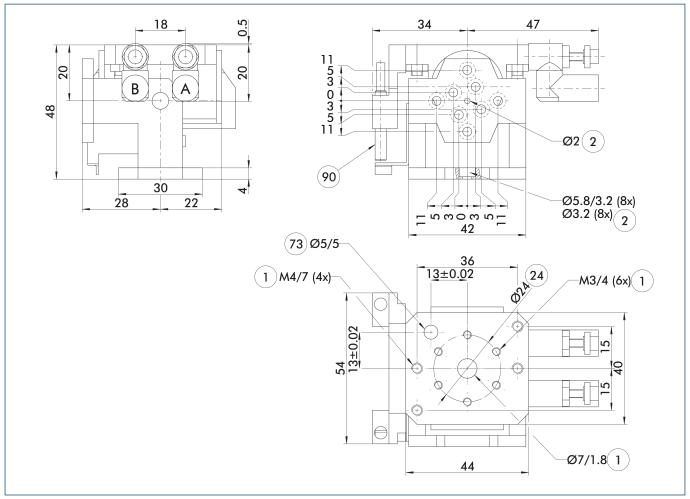


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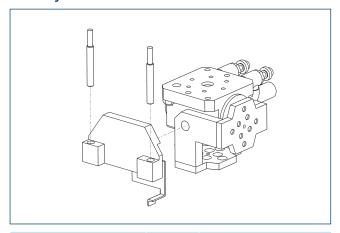
Technical data

| Description | | SKE 18 |
|--|-------|----------------|
| ID | | 0351100 |
| Angle of rotation | [°] | 90.0 |
| End position adjustability | [°] | 5.0 |
| Torque | [Nm] | 0.4 |
| Protection class IP | | 30 |
| Weight | [kg] | 0.13 |
| Cycle Time (1x rotation angle) without attached load | [s] | 0.50 |
| Fluid consumption (2 x nominal angle) | [cm³] | 10.0 |
| Nominal operating pressure | [bar] | 4.0 |
| Min./max. operating pressure | [bar] | 1/6 |
| Diameter of connecting hose | | 4.3 x 3 x 0.65 |
| Min./max. ambient temperature | [°C] | 5/50 |
| Repeat accuracy | [°] | 0.03 |
| Cleanroom class ISO 14644-1 | | 5 |

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- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, swivel unit clockwise turning
- B, b Main / direct connection, swivel unit counterclockwise turning
- 1 Connection swivel unit
- (2) Attachment connection
- Bolt circle
- 73 Fit for centering pins
- **90** Sensor IN ...

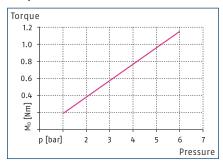


| 40-S-M8 0301 40-S 0301 ble extension BG12-SG12 3P-0030-PNP 0301 | | | | | |
|--|----------------|--|--|--|--|
| 40-S-M8 0301 40-S 0301 ble extension BG12-SG12 3P-0030-PNP 0301 | 1474 • 1555 | | | | |
| 0301 Ole extension BG12-SG12 3P-0030-PNP 0301 | 1999 | | | | |
| ole extension BG12-SG12 3P-0030-PNP 0301 | 1999 | | | | |
| BG12-SG12 3P-0030-PNP 0301 | | | | | |
| | | | | | |
| DC42 CC42 2D 00C0 DND 0224 | 1998 | | | | |
| BG12-SG12 3P-0060-PNP 0301 | | | | | |
| BW08-SG08 3P-0030-PNP 0301 | 1495 | | | | |
| BW08-SG08 3P-0100-PNP 0301 | 1496 | | | | |
| BW08-SG08 3P-0200-PNP 0301 | 1497 | | | | |
| BW12-SG12 3P-0030-PNP 0301 | 1595 | | | | |
| BW12-SG12 3P-0100-PNP 0301 | 1596 | | | | |
| BW12-SG12 3P-0200-PNP 0301 | 1597 | | | | |
| for plug/socket | | | | | |
| -M12 0301 | 1464 | | | | |
| -M8 0301 | 1463 | | | | |
| nnection cables | | | | | |
| BG08-L 3P-0300-PNP 0301 | 1622 | | | | |
| BG08-L 3P-0500-PNP 0301 | 1623 | | | | |
| BG12-L 3P-0500-PNP 3001 | 16369 | | | | |
| BW08-L 3P-0300-PNP 0301 | 1594 | | | | |
| BW08-L 3P-0500-PNP 0301 | 1502 | | | | |
| BW12-L 3P-0300-PNP 0301 | 1503 | | | | |
| BW12-L 3P-0500-PNP 0301 | 1507 | | | | |
| Sensor distributor | | | | | |
| -M12 0301 | 1776 | | | | |
| -M8 0301 | 1775 | | | | |
| -M12 0301 | 1747 | | | | |
| -M8 0301 | 1746 | | | | |
| -M12 0301 | 1752 | | | | |
| -M8 0301 | 1751 | | | | |

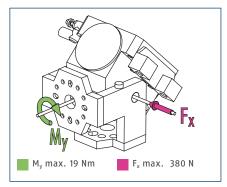
① Two sensors (closer/S) are required for each unit and extension cables are available as an option. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

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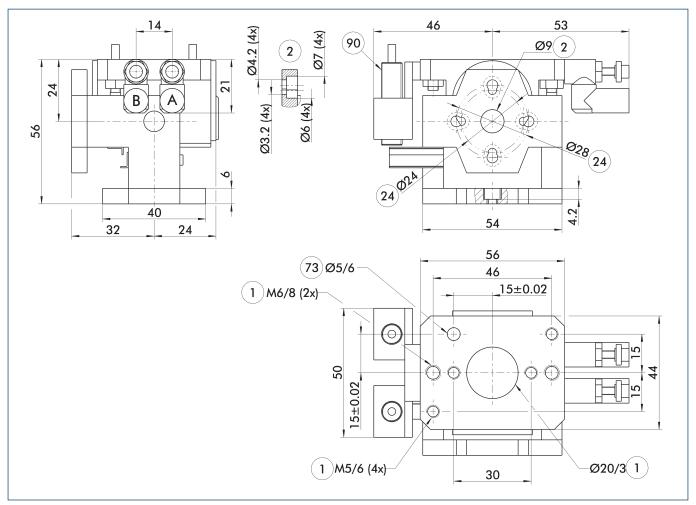
Forces and moments



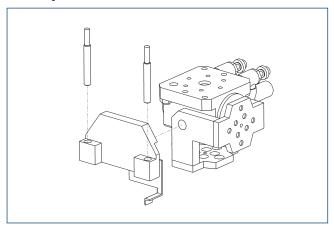
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Technical data

| Description | | SKE 22 |
|--|-------|----------------|
| ID | | 0351102 |
| Angle of rotation | [°] | 90.0 |
| End position adjustability | [°] | 5.0 |
| Torque | [Nm] | 0.75 |
| Protection class IP | | 30 |
| Weight | [kg] | 0.2 |
| Cycle Time (1x rotation angle) without attached load | [s] | 0.80 |
| Fluid consumption (2 x nominal angle) | [cm³] | 20.0 |
| Nominal operating pressure | [bar] | 4.0 |
| Min./max. operating pressure | [bar] | 1/6 |
| Diameter of connecting hose | | 4.3 x 3 x 0.65 |
| Min./max. ambient temperature | [°C] | 5/50 |
| Repeat accuracy | [°] | 0.03 |
| Cleanroom class ISO 14644-1 | | 5 |



- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, swivel unit clockwise turning
- B, b Main / direct connection, swivel unit counterclockwise turning
- 1 Connection swivel unit
- 2 Attachment connection
- Bolt circle
- 73 Fit for centering pins
- **90** Sensor IN ...

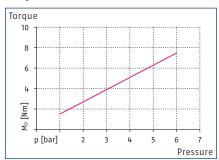


| Description | ID | Often combined |
|------------------------------|----------|----------------|
| Inductive Proximity Switches | , | |
| IN 80-S-M12 | 0301578 | |
| IN 80-S-M8 | 0301478 | • |
| IN-C 80-S-M8-PNP | 0301475 | |
| INK 80-S | 0301550 | |
| Cable extension | | |
| KV BG12-SG12 3P-0030-PNP | 0301999 | |
| KV BG12-SG12 3P-0060-PNP | 0301998 | |
| KV BW08-SG08 3P-0030-PNP | 0301495 | |
| KV BW08-SG08 3P-0100-PNP | 0301496 | |
| KV BW08-SG08 3P-0200-PNP | 0301497 | • |
| KV BW12-SG12 3P-0030-PNP | 0301595 | |
| KV BW12-SG12 3P-0100-PNP | 0301596 | |
| KV BW12-SG12 3P-0200-PNP | 0301597 | |
| clip for plug/socket | | |
| CLI-M12 | 0301464 | |
| CLI-M8 | 0301463 | |
| Connection cables | | |
| KA BG08-L 3P-0300-PNP | 0301622 | • |
| KA BG08-L 3P-0500-PNP | 0301623 | |
| KA BG12-L 3P-0500-PNP | 30016369 | |
| KA BW08-L 3P-0300-PNP | 0301594 | |
| KA BW08-L 3P-0500-PNP | 0301502 | |
| KA BW12-L 3P-0300-PNP | 0301503 | |
| KA BW12-L 3P-0500-PNP | 0301507 | |
| Sensor distributor | | |
| V2-M12 | 0301776 | • |
| V2-M8 | 0301775 | • |
| V4-M12 | 0301747 | |
| V4-M8 | 0301746 | |
| V8-M12 | 0301752 | |
| V8-M8 | 0301751 | |
| Two concors (closor(s) are | | |

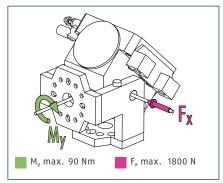
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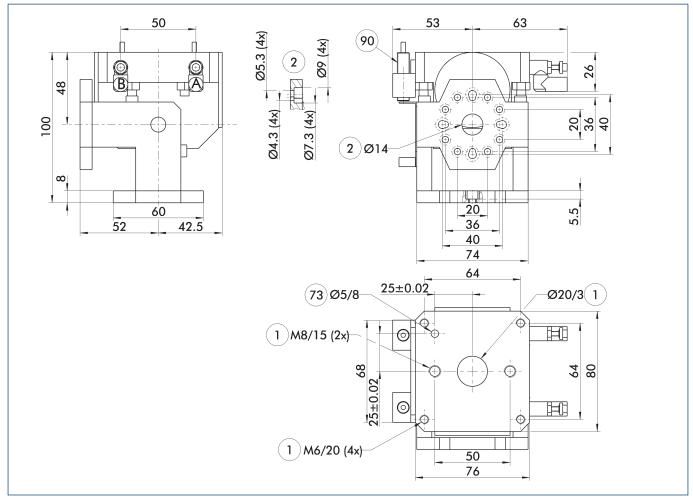
Forces and moments



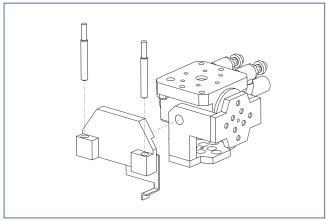
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Technical data

| Description | | SKE 40 |
|--|-------|----------------|
| ID | | 0351104 |
| Angle of rotation | [°] | 90.0 |
| End position adjustability | [°] | 5.0 |
| Torque | [Nm] | 5 |
| Protection class IP | | 30 |
| Weight | [kg] | 0.92 |
| Cycle Time (1x rotation angle) without attached load | [s] | 1.00 |
| Fluid consumption (2 x nominal angle) | [cm³] | 100.0 |
| Nominal operating pressure | [bar] | 4.0 |
| Min./max. operating pressure | [bar] | 1/6 |
| Diameter of connecting hose | | 4.3 x 3 x 0.65 |
| Min./max. ambient temperature | [°C] | 5/50 |
| Repeat accuracy | [°] | 0.03 |
| Cleanroom class ISO 14644-1 | | 5 |



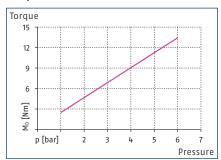
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- A, a Main / direct connection, swivel unit clockwise turning
- B, b Main / direct connection, swivel unit counterclockwise turning
- 1 Connection swivel unit
- 2 Attachment connection
- 73 Fit for centering pins
- 90 Sensor IN ...



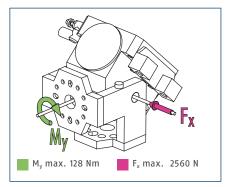
| Description | ID | Often combined | | |
|------------------------------|----------|----------------|--|--|
| Inductive Proximity Switches | | | | |
| IN 80-S-M12 | 0301578 | | | |
| IN 80-S-M8 | 0301478 | • | | |
| IN-C 80-S-M8-PNP | 0301475 | | | |
| INK 80-S | 0301550 | | | |
| Cable extension | | | | |
| KV BG12-SG12 3P-0030-PNP | 0301999 | | | |
| KV BG12-SG12 3P-0060-PNP | 0301998 | | | |
| KV BW08-SG08 3P-0030-PNP | 0301495 | | | |
| KV BW08-SG08 3P-0100-PNP | 0301496 | | | |
| KV BW08-SG08 3P-0200-PNP | 0301497 | • | | |
| KV BW12-SG12 3P-0030-PNP | 0301595 | | | |
| KV BW12-SG12 3P-0100-PNP | 0301596 | | | |
| KV BW12-SG12 3P-0200-PNP | 0301597 | | | |
| clip for plug/socket | | | | |
| CLI-M12 | 0301464 | | | |
| CLI-M8 | 0301463 | | | |
| Connection cables | | | | |
| KA BG08-L 3P-0300-PNP | 0301622 | • | | |
| KA BG08-L 3P-0500-PNP | 0301623 | | | |
| KA BG12-L 3P-0500-PNP | 30016369 | | | |
| KA BW08-L 3P-0300-PNP | 0301594 | | | |
| KA BW08-L 3P-0500-PNP | 0301502 | | | |
| KA BW12-L 3P-0300-PNP | 0301503 | | | |
| KA BW12-L 3P-0500-PNP | 0301507 | | | |
| Sensor distributor | | | | |
| V2-M12 | 0301776 | • | | |
| V2-M8 | 0301775 | • | | |
| V4-M12 | 0301747 | | | |
| V4-M8 | 0301746 | | | |
| V8-M12 | 0301752 | | | |
| V8-M8 | 0301751 | | | |

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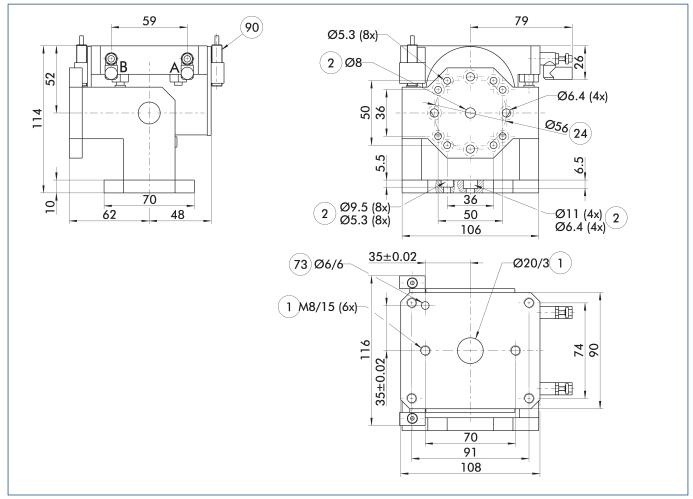
Forces and moments



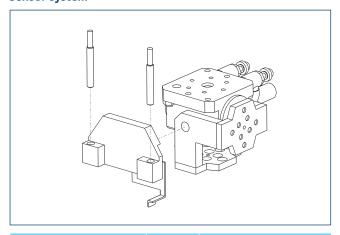
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Technical data

| Description | | SKE 55 |
|--|-------|----------------|
| ID | | 0351106 |
| Angle of rotation | [°] | 90.0 |
| End position adjustability | [°] | 5.0 |
| Torque | [Nm] | 9 |
| Protection class IP | | 30 |
| Weight | [kg] | 1.95 |
| Cycle Time (1x rotation angle) without attached load | [s] | 1.50 |
| Fluid consumption (2 x nominal angle) | [cm³] | 160.0 |
| Nominal operating pressure | [bar] | 4.0 |
| Min./max. operating pressure | [bar] | 1/6 |
| Diameter of connecting hose | | 4.3 x 3 x 0.65 |
| Min./max. ambient temperature | [°C] | 5/50 |
| Repeat accuracy | [°] | 0.03 |
| Cleanroom class ISO 14644-1 | | 5 |



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- A, a Main / direct connection, swivel unit clockwise turning
- B, b Main / direct connection, swivel unit counterclockwise turning
- 1 Connection swivel unit
- (2) Attachment connection
- Bolt circle
- 73 Fit for centering pins
- **90** Sensor IN ...



| Inductive Proximity Switches IN 80-S-M12 0301578 IN 80-S-M8 0301475 IN-C 80-S-M8-PNP 0301550 Cable extension KV BG12-SG12 3P-0030-PNP KV BG12-SG12 3P-0060-PNP 0301999 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0200-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301503 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M8 0301746 • V4-M12 0301746 • V4-M8 0301746 • < | Description | ID | Often combined | | |
|--|------------------------------|----------|----------------|--|--|
| IN 80-S-M8 IN-C 80-S-M8-PNP INK 80-S INK 8012-SG12 3P-0030-PNP INK 8012-SG12 3P-0030-PNP INK 808-SG08 3P-0100-PNP INK 808-SG08 3P-0100-PNP INK 808-SG08 3P-0200-PNP INK 808-SC08 3P-0200-PNP INK 808-SC08 3P-0200-PNP INK 808-SC08 3P-0200-PNP INK 808-SC08 3P-0200-PNP INK 808-SCOR 80-SCOR 80-SCOR 80-SCOR 80-SCOR 80-SCOR 80-SCOR 80-SCOR 80-SCOR | Inductive Proximity Switches | | | | |
| IN-C 80-S-M8-PNP INK 80-S Cable extension KV BG12-SG12 3P-0030-PNP KV BG12-SG12 3P-0060-PNP KV BW08-SG08 3P-0030-PNP KV BW08-SG08 3P-0100-PNP KV BW08-SG08 3P-0200-PNP KV BW12-SG12 3P-0030-PNP KV BW12-SG12 3P-0030-PNP KV BW12-SG12 3P-0100-PNP GW BW12-SG12 3P-0100-PNP WW BW12-SG12 3P-0200-PNP WW BW12-SG12 3P-0200-PNP Clip for plug/socket CLI-M12 CLI-M2 CUI-M8 CONNECTION CABLES KA BG08-L 3P-0300-PNP WA BW08-L 3P-0500-PNP WA BW12-L 3P-050 | IN 80-S-M12 | 0301578 | | | |
| INK 80-S Cable extension KV BG12-SG12 3P-0030-PNP KV BG12-SG12 3P-0060-PNP KV BW08-SG08 3P-0030-PNP KV BW08-SG08 3P-0100-PNP KV BW08-SG08 3P-0200-PNP KV BW12-SG12 3P-0030-PNP KV BW12-SG12 3P-0030-PNP KV BW12-SG12 3P-0100-PNP GW BW12-SG12 3P-0100-PNP WW BW12-SG12 3P-0200-PNP WW BW12-SG12 3P-0200-PNP WW BW12-SG12 3P-0200-PNP Clip for plug/socket CLI-M12 CLI-M8 CONNECTION CABLES KA BG08-L 3P-0300-PNP WA BW08-L 3P-0500-PNP WA BW12-L 3P-050 | IN 80-S-M8 | 0301478 | • | | |
| Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0100-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301497 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301596 KV BW12-SG12 3P-0100-PNP 0301597 clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG08-L 3P-0500-PNP 03016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301592 KA BW08-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M8 0301775 • V4-M12 0301747 V4-M8 0301747 | IN-C 80-S-M8-PNP | 0301475 | | | |
| KV BG12-SG12 3P-0030-PNP 0301998 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301623 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M8 0301775 V4-M8 0301747 V4-M8 0301747 | INK 80-S | 0301550 | | | |
| KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 03016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301592 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M12 0301775 V4-M12 0301747 V4-M8 0301747 | Cable extension | | | | |
| KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 03016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M8 0301747 V4-M8 0301747 | KV BG12-SG12 3P-0030-PNP | 0301999 | | | |
| KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 03016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V4-M12 0301747 V4-M8 0301746 | KV BG12-SG12 3P-0060-PNP | 0301998 | | | |
| KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 • V2-M8 0301747 V4-M8 0301747 | KV BW08-SG08 3P-0030-PNP | 0301495 | | | |
| KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket 0301464 CLI-M12 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M8 0301747 V4-M8 0301746 | KV BW08-SG08 3P-0100-PNP | 0301496 | | | |
| KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M12 0301747 V4-M8 0301746 | KV BW08-SG08 3P-0200-PNP | 0301497 | • | | |
| KV BW12-SG12 3P-0200-PNP 0301597 clip for plug/socket 0301464 CLI-M12 0301463 Connection cables 0301622 KA BG08-L 3P-0300-PNP 0301623 KA BG08-L 3P-0500-PNP 30016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M8 0301775 ● V4-M12 0301747 V4-M8 0301746 | KV BW12-SG12 3P-0030-PNP | 0301595 | | | |
| CLIP for plug/socket CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301569 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M12 0301747 V4-M8 0301746 | KV BW12-SG12 3P-0100-PNP | 0301596 | | | |
| CLI-M12 0301464 CLI-M8 0301463 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301569 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M12 0301775 V4-M12 0301747 V4-M8 0301747 | KV BW12-SG12 3P-0200-PNP | 0301597 | | | |
| CLI-M8 Connection cables KA BG08-L 3P-0300-PNP | clip for plug/socket | | | | |
| Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M12 0301747 V4-M8 0301746 | CLI-M12 | 0301464 | | | |
| KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M12 0301747 V4-M8 0301746 | CLI-M8 | 0301463 | | | |
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| KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Sensor distributor V2-M12 V2-M8 0301775 V4-M12 0301747 V4-M8 0301746 | KA BG08-L 3P-0300-PNP | 0301622 | • | | |
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| KA BW12-L 3P-0500-PNP 0301507 Sensor distributor 0301776 V2-M12 0301776 V2-M8 0301775 V4-M12 0301747 V4-M8 0301746 | KA BW08-L 3P-0500-PNP | 0301502 | | | |
| Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M12 0301747 V4-M8 0301746 | KA BW12-L 3P-0300-PNP | 0301503 | | | |
| V2-M12 0301776 • V2-M8 0301775 • V4-M12 0301747 V4-M8 0301746 | KA BW12-L 3P-0500-PNP | 0301507 | | | |
| V2-M8 0301775 • V4-M12 0301747 V4-M8 0301746 | Sensor distributor | | | | |
| V4-M12 0301747 V4-M8 0301746 | V2-M12 | 0301776 | • | | |
| V4-M8 0301746 | V2-M8 | 0301775 | • | | |
| | V4-M12 | 0301747 | | | |
| V8-M12 0301752 | V4-M8 | 0301746 | | | |
| | V8-M12 | 0301752 | | | |
| V8-M8 0301751 | V8-M8 | 0301751 | | | |

① Two sensors (closer/S) are required for each unit and extension cables are available as an option. For sensor cables, note the minimum permissible bending radii. These are generally 35 mm.

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