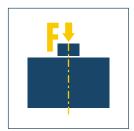


Sizes 18..55



Weight 0.13 kg .. 1.95 kg



Axial force 140 N .. 2560 N

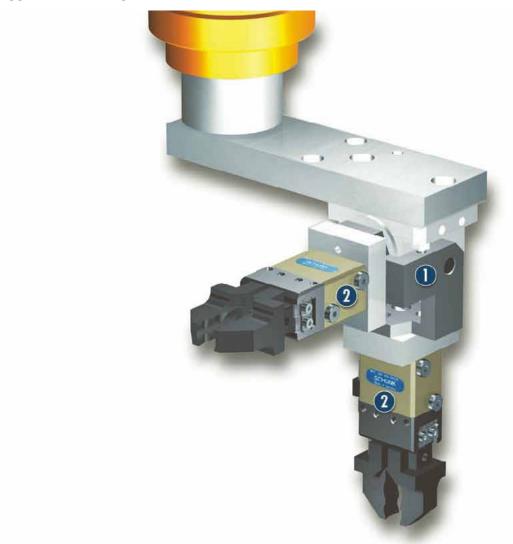


Torque 0.4 Nm .. 9.0 Nm



Bending moment 7.0 Nm .. 128 Nm

Application example



Robot gripper module for the removal and loading of a variety of axles and bolts



SKE 22 Swivel Head



MPG 32 2-Finger Parallel Gripper



Swivel Head

90° swivel head with single piston drive

Area of application

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

Your advantages and benefits

90° swivel head

can travel to three positions

Low weight and compact design

for short cycle times

Standardized interfaces to many grippers in the RH series

for rapid gripper assembly without intermediate plates





Information about the series

Working principle

Double-acting single piston with transfer to a swivel movement by means of a serration

Housing material

High-strength aluminum

Material of functional components (internal)

Steel

Actuation

Pneumatic, with filtered compressed air (10 μ m): Dry, lubricated or non-lubricated Pressure medium: Required quality class of compressed air according to DIN ISO 8573-1: Quality class 4

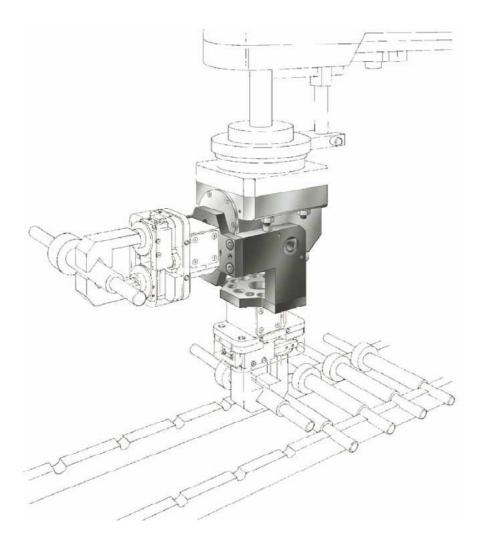
Warranty

24 months

Scope of delivery

Small parts for mounting, flow control couplings, assembly and operating manual with manufacturer's declaration





Function description

A double-acting piston located in the housing turns the die 90° swivel axis. Its speed is restricted by flow control couplings, ensuring that it travels cleanly to the end position.

Options and special information

In order to keep the manufacturing costs and thus the sale prices low, the SKE series is designed for low-cost production. Therefore, repairs are generally not economically feasible.





Accessories

Accessories from SCHUNK — the suitable complement for the highest level of functionality, reliability and controlled production of all automation components.





IN inductive proximity switches



W/WK/KV/GK sensor cables





SDV-P pressure maintenance valves





V sensor distributors



(i) For the exact size of the required accessories, availability of this size and the designation and ID, please refer to the additional views at the end of the size in question.

You will find more detailed information on our accessory range in the "Accessories" catalog section.

General information on the series

Clean environment

SKE rotary units may only be employed in a clean environment.

Repeat accuracy

Repeat accuracy is defined as the spread of the limit position after 100 consecutive swiveling cycles.

Cycle time

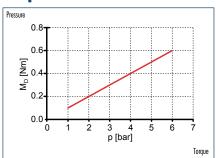
Cycle times are purely the times taken by the pinion/flange to turn round the nominal angle of rotation. Valve switching times, hose filling times or SPC reaction times are not included in the above times and must be taken into consideration when determining cycle times.

Direct connection of grippers

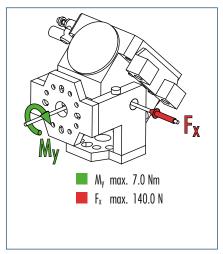
Some RH grippers can be flange-mounted directly to the SKE without an adapter plate. In this case, please note the screw connection diagram.



Torque

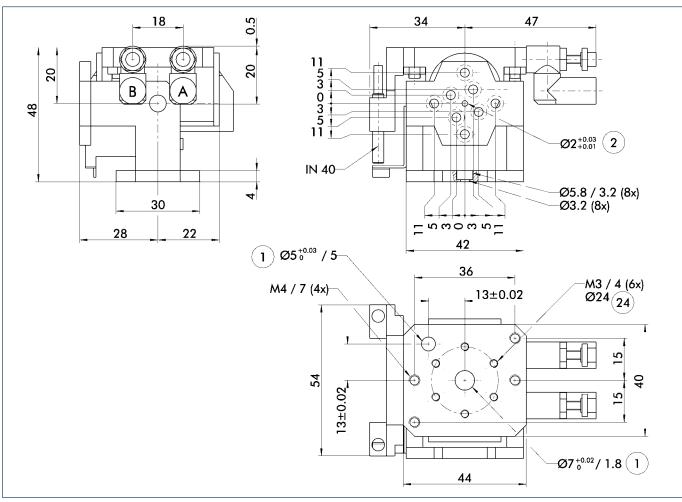


Moment load



Moments and forces may occur simultaneously. When using heavy attachments or ones with high mass moments of inertia, the speed must be restricted to ensure that the rotary movement occurs without any hitting or bouncing.

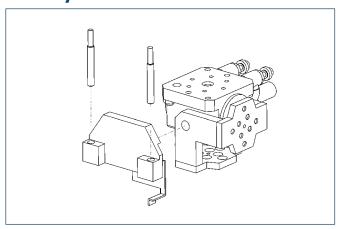
Description		SKE 18	
	ID	0351100	
Torque	[Nm]	0.4	
Rotating angle	[°]	90.0	
Adjustability of end positions	[°]	5.0	
IP class		30	
Weight	[kg]	0.13	
Cycle time (1 x nominal angle of rotation) without attached load	[s]	0.5	
Fluid consumption per cycle (2 x nominal angle)	[cm³]	10.0	
Nominal pressure	[bar]	4.0	
Minimum pressure	[bar]	1.0	
Maximum pressure	[bar]	6.0	
Diameter of connecting hose	[mm]	4.0	
Min. ambient temperature	[° (]	5.0	
Max. ambient temperature	[° (]	50.0	
Repeat accuracy	[°]	0.03	



- (1) The SDV-P pressure maintenance valve can be used to hold the position upon a loss of pressure (see "Accessories" catalog section).
- A,a Main/direct connection, clockwise rotary unit
- B,b Main/direct connection, anti-clockwise rotary unit
- Rotary unit connection
- Attachment connection
- 24) Bolt circle



Sensor system



End position monitoring:

Inductive proximity switches, for direct mounting

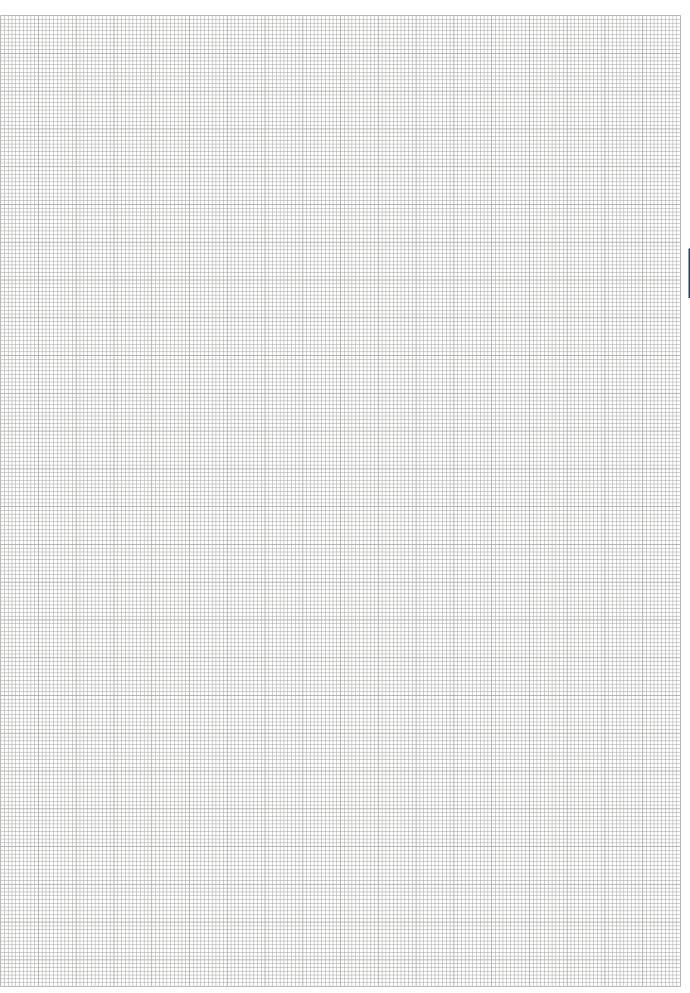
Description	ID	Recommended product	
IN 40-S-M12	0301574		
IN 40-S-M8	0301474	•	
INK 40-S	0301555		

① Two sensors (NO contacts) are required for each swivel head, plus extension cables as an option.

Extension cables for proximity switches/magnetic switches

Description	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

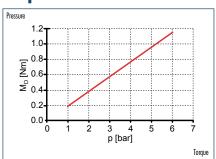




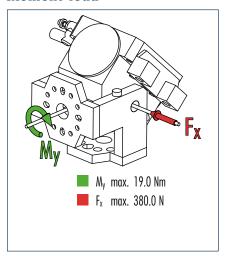




Torque

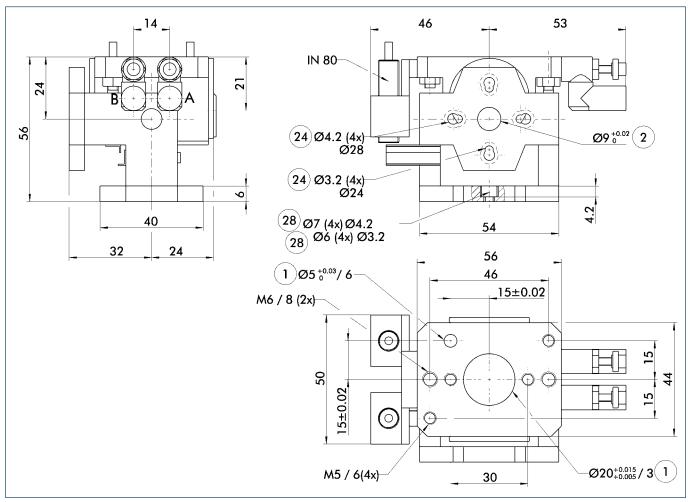


Moment load



Moments and forces may occur simultaneously. When using heavy attachments or ones with high mass moments of inertia, the speed must be restricted to ensure that the rotary movement occurs without any hitting or bouncing.

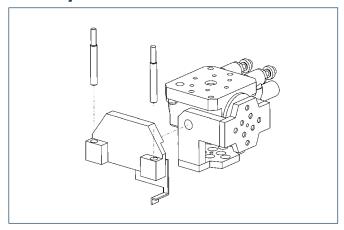
Description		SKE 22	
	ID	0351102	
Torque	[Nm]	0.75	
Rotating angle	[°]	90.0	
Adjustability of end positions	[°]	5.0	
IP class		30	
Weight	[kg]	0.2	
Cycle time (1 x nominal angle of rotation) without attached load	[s]	0.8	
Fluid consumption per cycle (2 x nominal angle)	[cm³]	20.0	
Nominal pressure	[bar]	4.0	
Minimum pressure	[bar]	1.0	
Maximum pressure	[bar]	6.0	
Diameter of connecting hose	[mm]	4.0	
Min. ambient temperature	[°C]	5.0	
Max. ambient temperature	[°(]	50.0	
Repeat accuracy	[°]	0.03	



- ① The SDV-P pressure maintenance valve can be used to hold the position upon a loss of pressure (see "Accessories" catalog section).
- A,a Main/direct connection, clockwise rotary unit
- B,b Main/direct connection, anti-clockwise rotary unit
- Rotary unit connection
 Attachment connection
- Bolt circleThrough-bore



Sensor system



End position monitoring:

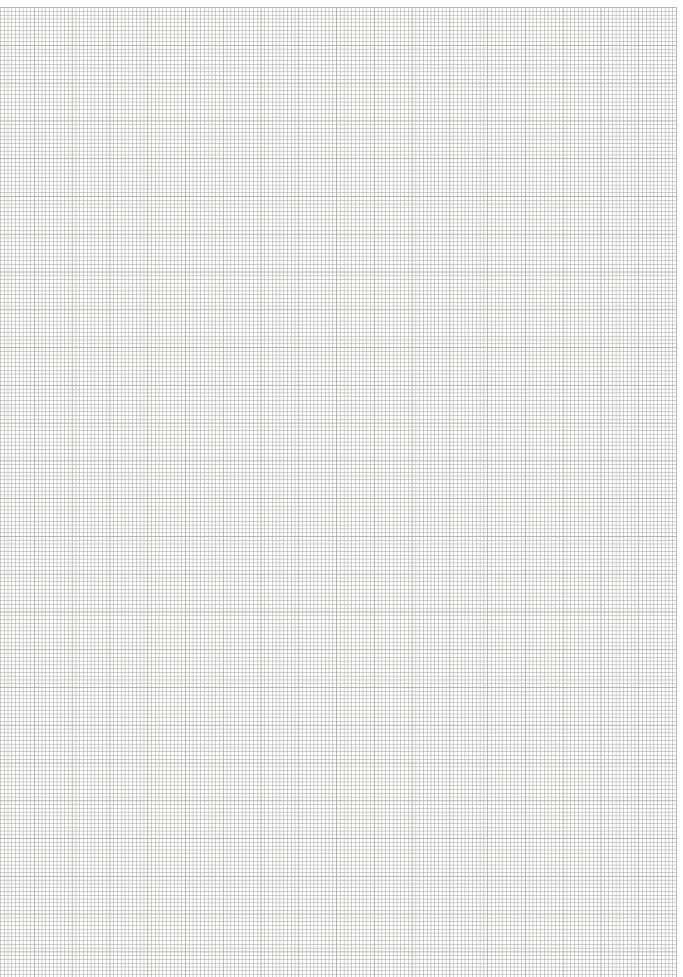
Inductive proximity switches, for direct mounting

Description	ID	Recommended product
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	•
IN-C 80-S-M8	0301475	
INK 80-S	0301550	

① Two sensors (NO contacts) are required for each swivel head, plus extension cables as an option.

Extension cables for proximity switches/magnetic switches

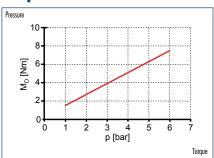
Description	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	



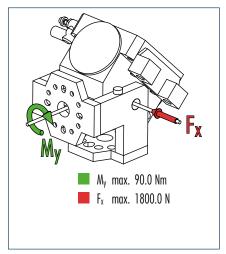




Torque

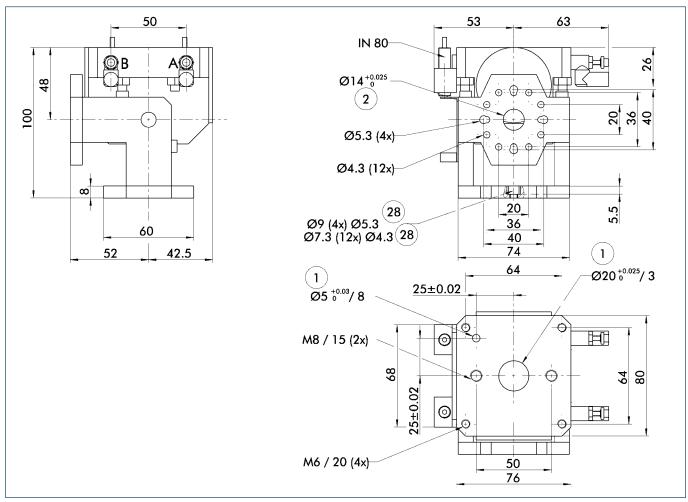


Moment load



Moments and forces may occur simultaneously. When using heavy attachments or ones with high mass moments of inertia, the speed must be restricted to ensure that the rotary movement occurs without any hitting or bouncing.

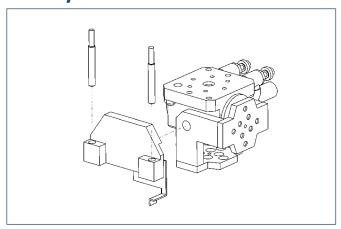
Description		SKE 40	
	ID	0351104	
Torque	[Nm]	5.0	
Rotating angle	[°]	90.0	
Adjustability of end positions	[°]	5.0	
IP class		30	
Weight	[kg]	0.92	
Cycle time (1 x nominal angle of rotation) without attached load	[5]	1.0	
Fluid consumption per cycle (2 x nominal angle)	[cm³]	100.0	
Nominal pressure	[bar]	4.0	
Minimum pressure	[bar]	1.0	
Maximum pressure	[bar]	6.0	
Diameter of connecting hose	[mm]	4.0	
Min. ambient temperature	[°C]	5.0	
Max. ambient temperature	[° (]	50.0	
Repeat accuracy	[°]	0.03	



- (1) The SDV-P pressure maintenance valve can be used to hold the position upon a loss of pressure (see "Accessories" catalog section).
- A,a Main/direct connection, clockwise rotary unit
- B,b Main/direct connection, anti-clockwise rotary unit
- Rotary unit connection
- (2) Attachment connection
- 28 Through-bore



Sensor system



End position monitoring:

Inductive proximity switches, for direct mounting

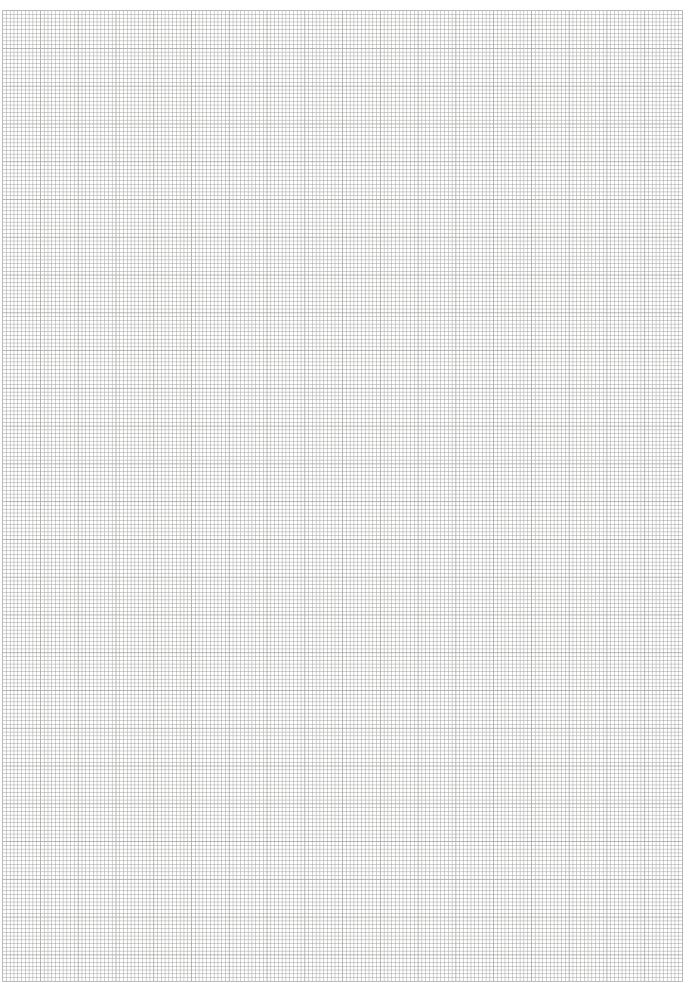
Description	ID	Recommended product
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	•
IN-C 80-S-M8	0301475	
INK 80-S	0301550	

① Two sensors (NO contacts) are required for each swivel head, plus extension cables as an option.

Extension cables for proximity switches/magnetic switches

Description	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

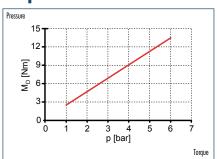




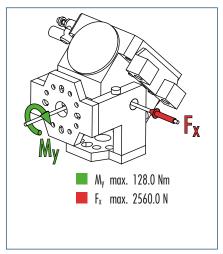




Torque

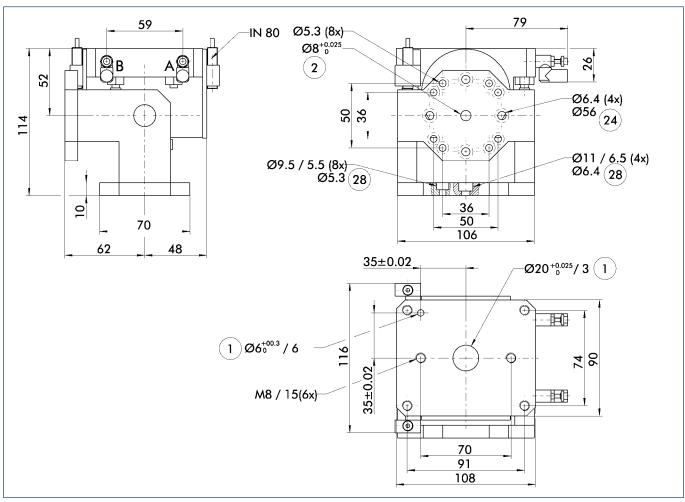


Moment load



Moments and forces may occur simultaneously. When using heavy attachments or ones with high mass moments of inertia, the speed must be restricted to ensure that the rotary movement occurs without any hitting or bouncing.

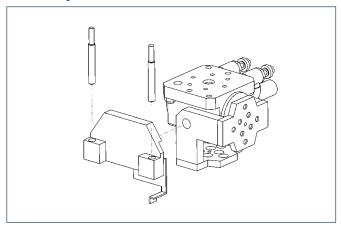
Description		SKE 55	
	ID	0351106	
Torque	[Nm]	9.0	
Rotating angle	[°]	90.0	
Adjustability of end positions	[°]	5.0	
IP class		30	
Weight	[kg]	1.95	
Cycle time (1 x nominal angle of rotation) without attached load	[5]	1.5	
Fluid consumption per cycle (2 x nominal angle)	[cm³]	160.0	
Nominal pressure	[bar]	4.0	
Minimum pressure	[bar]	1.0	
Maximum pressure	[bar]	6.0	
Diameter of connecting hose	[mm]	4.0	
Min. ambient temperature	[°(]	5.0	
Max. ambient temperature	[°(]	50.0	
Repeat accuracy	[°]	0.03	



- ① The SDV-P pressure maintenance valve can be used to hold the position upon a loss of pressure (see "Accessories" catalog section).
- A,a Main/direct connection, clockwise rotary unit
- Main/direct connection, anti-clockwise rotary unit
- Rotary unit connection
- 1 2 Attachment connection
- Bolt circleThrough-bore



Sensor system



End position monitoring:

Inductive proximity switches, for direct mounting

Description	ID	Recommended product
IN 80-S-M12	0301578	
IN 80-S-M8	0301478	•
IN-C 80-S-M8	0301475	
INK 80-S	0301550	

① Two sensors (NO contacts) are required for each swivel head, plus extension cables as an option.

Extension cables for proximity switches/magnetic switches

Description	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	