



Superior Clamping and Gripping



Product data sheet

Analog position sensor APS-M1

APS-M1

Analog position sensor

Precise. Flexible. Reliable.

APS-M1 analog position sensor

The mechanical analog sensor ensures accurate recording of the gripper jaws position.

Field of application

for the precise measurement of the gripper jaw position in clean environments

Advantages – Your benefits

Analog multi position monitoring for any desired positions for flexibility in all automation solutions

Exact measuring system also for long strokes

Compact design for space-saving installation in any control cabinet

CE compliant for longevity during continuous use



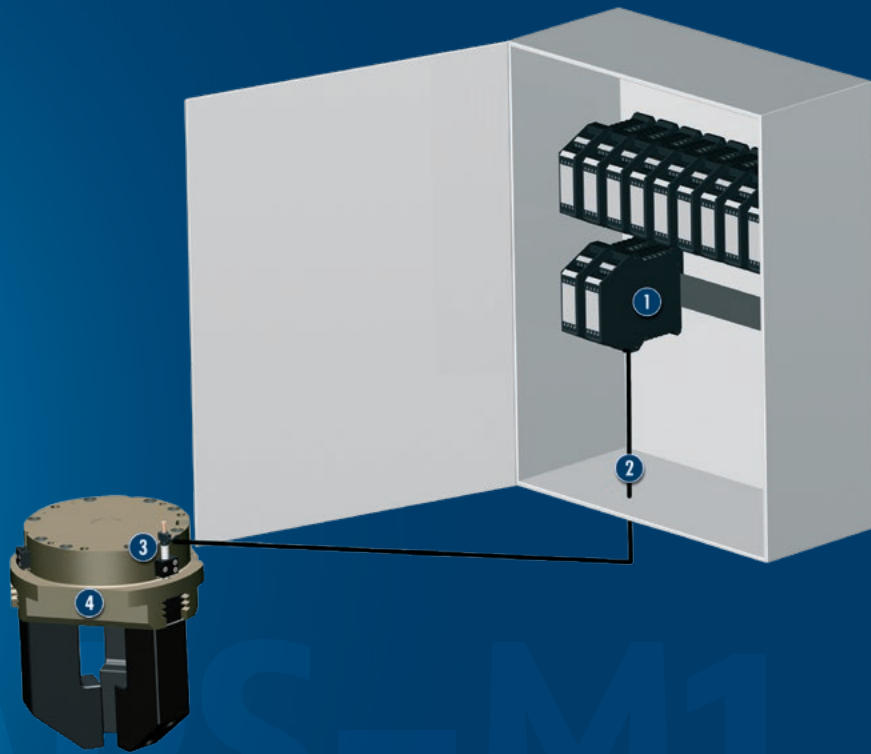
Options and special information

Warranty: 24 months

Attachment kits: One attachment kit is required per gripper for the APS system. A suitable attachment kit can be found in the relevant section of the catalog for the gripper in question.

Order: Sensor and evaluation electronics have to be ordered separately.

Application example



① APS-M1E processor

③ APS-M1S sensor

④ PZN-plus 100 3-finger centric gripper

② APS-K7 extension cable

SCHUNK offers more ...

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



2-finger parallel gripper



3-Finger Centric Gripper

① For more information on these products can be found on the following product pages or at schunk.com.

APS-M1 M1S

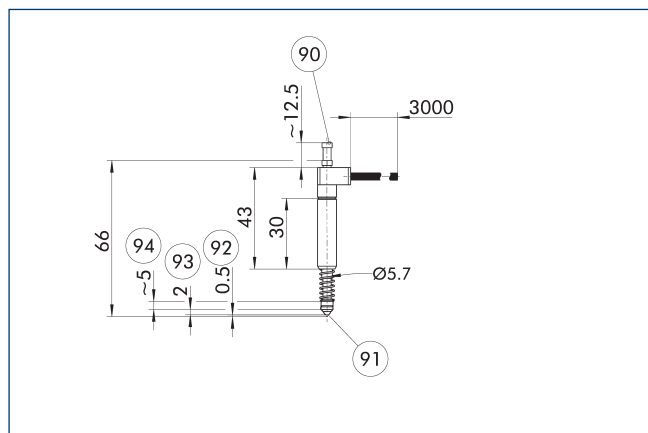
Analog position sensor



Technical data

Description		APS-M1S
ID		0302062
Measuring stroke	[mm]	2
Measuring accuracy	[mm]	0.004
Supply voltage		DC
Nominal voltage	[V]	2.5
Nominal current	[A]	0.023
IP protection class		67
Temperature drift zero signal	[%/10K]	0.1
Thermal drift of amplification factor	[%/10K]	0.2
Min./max. ambient temperature	[°C]	10/60
Weight	[kg]	0.16

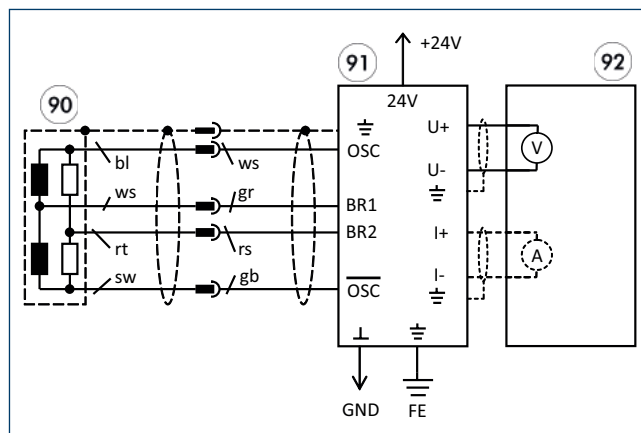
APS sensor



- ⑨① Position with retracted feeler rod
- ⑨② Initial stroke
- ⑨③ Range of measurement
- ⑨④ Free stroke
- ⑨① Carbide ball 1/8"

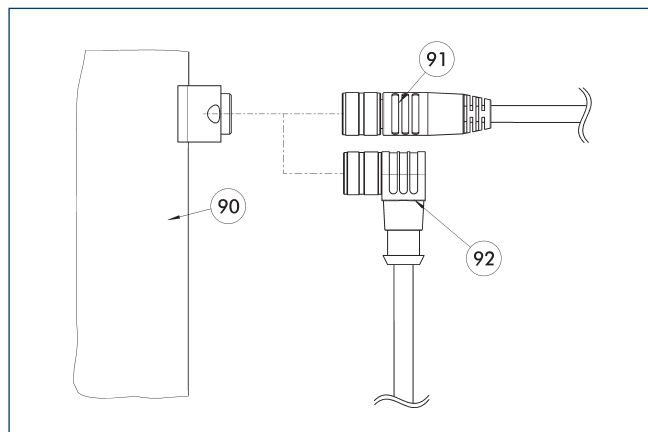
The drawing shows the basic version of the sensor.

Connection diagram



- ⑨① APS-M1S sensor
- ⑨② Automation device, e.g. S7-300
- ⑨① APS-M1E electronic processor

Connection cables



- ⑨① Cable with straight connector
- ⑨② Cable with angled connector
- ⑨① Electrical connection component

Description	ID	Length
		[m]
Connection cables		
APS-K0200	0302066	2
APS-K0700	0302068	7

- ① BG stands for a connection cable with a straight female connector and BW for an angled female connector. SG stands for a connection cable with a straight male connector and SW for an angled male connector.

APS-M1 M1E

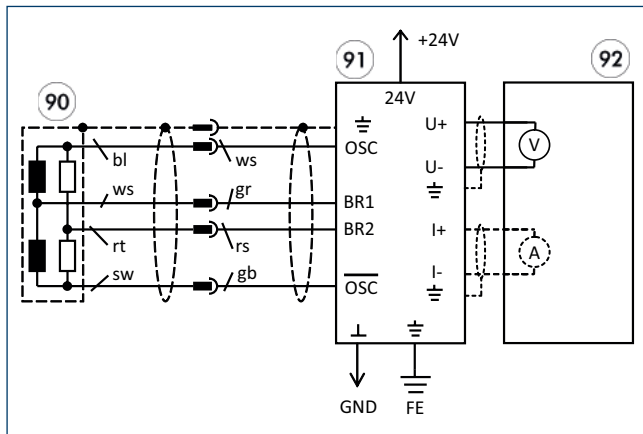
Analog position sensor



Technical data

Description		APS-M1E
ID		0302064
Supply voltage		DC
Nominal voltage	[V]	24
Min. voltage	[V]	22
Max. voltage	[V]	26
Nominal current	[A]	0.1
IP protection class		20
Min./max. ambient temperature	[°C]	0/60
Weight	[kg]	0.16
Repeat accuracy (sensor and processor)	[%]	0.3
Housing material		PA
Output signal		0..10 V DC 4..20 mA
Mounting		Top-hat rail

Connection diagram



⑨⑩ APS-M1S sensor

⑨① APS-M1E electronic processor

⑨② Automation device, e.g. S7-300



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