



Superior Clamping and Gripping



Product Information

Optical distance sensor ONS

ONS

Optical distance sensor

Easy programming Non-contact. Compact.

OAS optical proximity switch

The optical proximity switch ONS allows query of miniature grippers during small parts handling applications.

Field of application

Used in clean environments and combined with a SCHUNK SWG miniature gripper.

Advantages – Your benefits

Easy programming for short commissioning times

LED display for fast and easy control of function

Light optical waveguide for low weights at the gripper

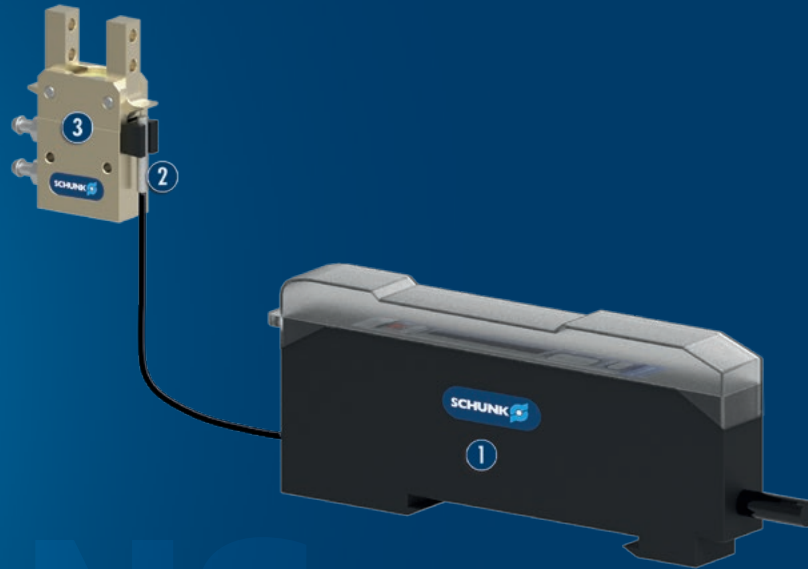


Options and special information

Warranty: 24 months

Note: The ONS sensor is distinguished by its affordable price. It is based on the FS-V31P product from Keyence. The hardware and software specifications have enhanced the ease of use on SCHUNK grippers and optimized the range of functions.

Application example



① ONS 01

② ONS 01-LWL

③ 2-finger angular gripper SWG

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 angular gripper SWG



KA connection cable



Sensor distributor



KST cable connector

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

ONS 01

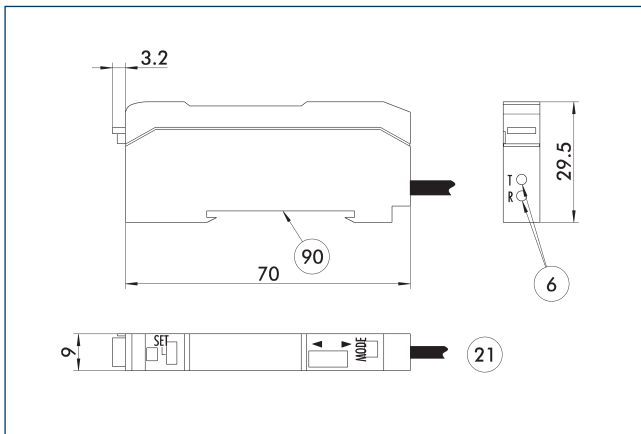
Optical distance sensor



Technical data

Description		ONS 01
ID		0301390
Type of voltage		DC
Min. voltage	[V]	12
Max. voltage	[V]	24
Number of digital switching outputs		4
Max. switching current	[mA]	100
Min./max. ambient temperature	[°C]	-10/55
IP protection class		20

ONS 01



- ⑥ Connection module side
- ⑨⑩ Assembly rail
- ②① Connection controller side

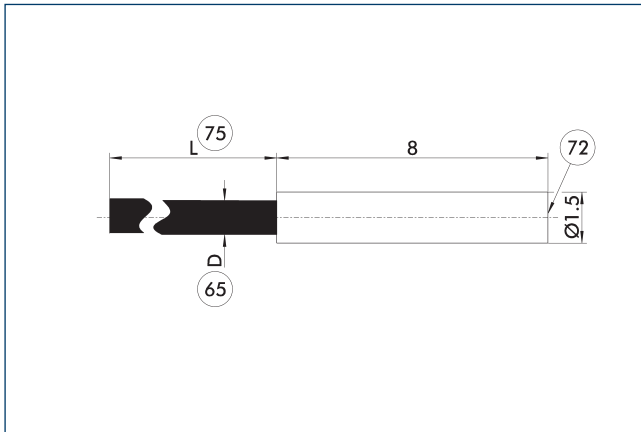
ONS 01-LWL

Optical distance sensor



Technical data

Description		ONS 01-LWL
ID		0301391
Cable diameter	[mm]	1
Diameter at the cable end	[mm]	1.5
Cable length	[m]	1
Min. bending radius (dynamic)	[mm]	40
Min. bending radius (static)	[mm]	30

ONS 01-LWL

⑥⑤ Cable diameter

⑦⑤ Cable length

⑦② Active sensor surface

Per ONS 01, one ONS 01-LWL fiber optic cable is required.



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