



Hand in hand for tomorrow



Product data sheet

Inductive proximity switches NI 41

Reliable. Non-contact. Easy assembly.

NI inductive proximity switches

Inductive proximity switches are used to scan the current status of automation components. The NI proximity switches are available with a 30 cm molded cable or with a direct connection.

Field of application

Sensors are used for monitoring gripping and rotary modules, as well as linear modules, and robot accessories. Inductive SCHUNK sensors detect metals without contact, and are resistant to vibration, dust, and water. The sensors are suitable for connection to a digital input module. For connection with a digital input module (utilization categorie DC-12).

Advantages – Your benefits

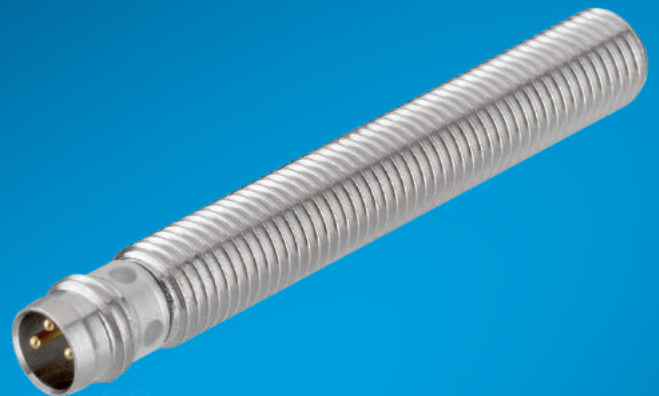
Mounting with brackets for easy and fast assembly

Version with LED display for control of the switching position directly at the sensor

Version with standard plug connector for fast and easy exchangeability of the extension cable

Very flexible cable in PUR version for a long service life

Proximity switches for flush mounting for minimal interfering contours in the application



Options and special information

High protection class: IP67 when plugged in, for use in clean or dusty environments or in case of contact with water. Operability in case of contact with other media (coolant, acids, bases, etc.) is often given, however cannot be guaranteed by SCHUNK.

Power supply: 10 – 30 V DC at < 15% residual ripple

Type of switching: PNP

Warranty: 24 months

Application example



Handling and rotary unit for components with sensor monitoring on the gripping module

① IN sensors

② Universal rotary actuator SRM

③ 2-finger parallel gripper PGN-plus-P

④ KST cable connector

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



Rotary unit

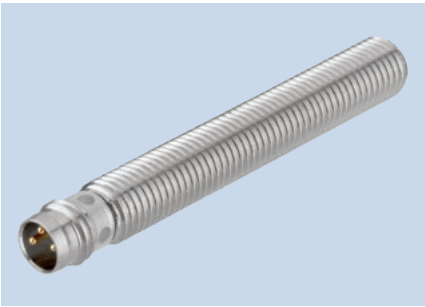


Sensor cables



Sensor distributor

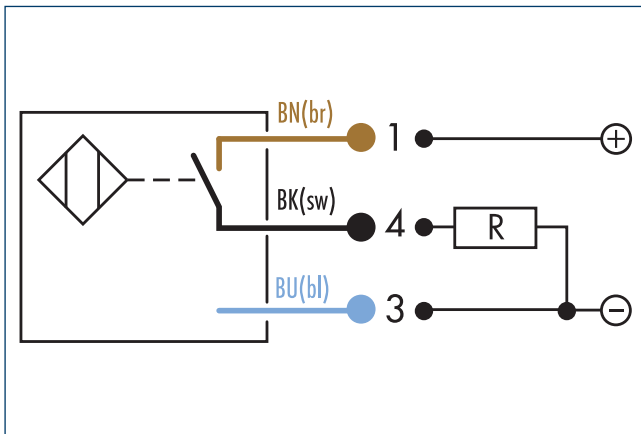
① For more information on these products can be found on the following product pages or at schunk.com.



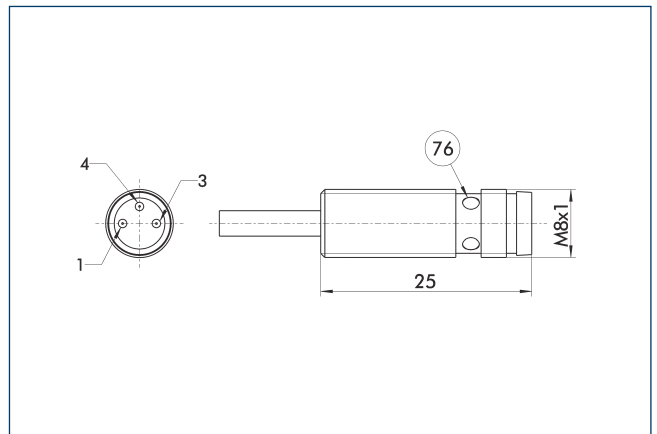
Technical data

Description		NI 41-0	NI 41-S
ID		0315495	0319456
Operating principle			
Switching function		Opener	Closer
Type of switching		PNP	PNP
Switching distance	[mm]	2	1.5
Switching hysteresis from the nominal switching distance		< 15%	< 15%
Max. switching frequency	[Hz]	3000	5000
Linearity error			
Min./max. ambient temperature	[°C]	-25/70	-25/70
Tightness IP (sensor, connected)		67	67
Type of voltage		DC	DC
Nominal voltage	[V]	24	24
Min. voltage	[V]	10	10
Max. voltage	[V]	30	30
Max. switching current	[A]	0.2	0.2
Cable connector/cable end		M8	M8

Wiring diagram closer PNP



M8 connector



⑦⑥ LED

The plug has no coupling ring. The cable extension or the sensor distributor has to be equipped with a coupling ring.



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