



Position sensors and object recognition

# Inductive slot sensors – small, low price and versatile.



Precise position detection for instrumentation.

- Standardised housing for easy installation.
- Approvals to ATEX and IECEx.
- Namur interface.
- Wide temperature range.

Operating temperature up to 100°C

II1D ATEX

II1G ATEX

## Applications

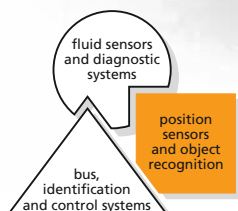
Applications for slot sensors can be found on measuring devices or instruments for metering pressures and flow rates. The sensors can be installed individually and ensure wear-free and non-contact switching. The sensor target can be made of different materials.

## Typical applications:

In a meter the sensor detects slots in a disc. In a vane-type flow meter the pointer counterweight position is detected by slot sensors.

## Versions

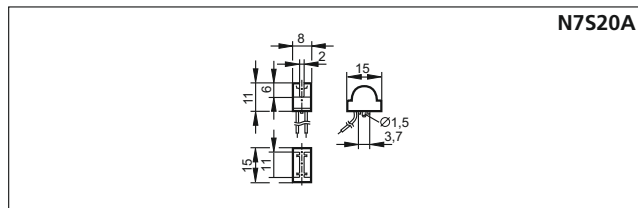
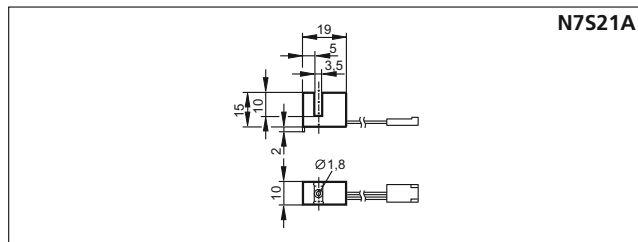
The new inductive slot sensors are approved for Category 1 ATEX gas and dust areas. The sensors can be operated outside ATEX areas with 24 V.



**Applications:**  
fittings, measurement devices, valve boxes

ATEX category	Slot width [mm]	Ambient temperature [°C]	Housing: material	Protection	f [Hz]	Order no.
<b>2-wire DC PNP</b>						
II 1 D, 1 G	2	-40...100	PBT	IP 67, III	5000	<b>N7S20A</b>
II 1 D, 1 G	3.5	-40...100	PBT	IP 67, III	3000	<b>N7S21A</b>
II 1 D, 1 G	3.5	-40...100	PBT	IP 67, III	3000	<b>N7S23A</b>

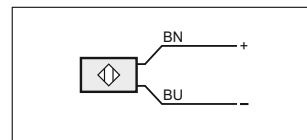
**Dimensions**



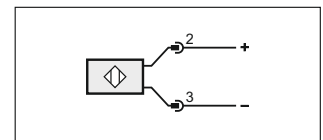
**Common technical data**

Slot sensors Slot width 2 mm and 3.5 mm		
Operating voltage	[V DC]	8.2
Current consumption	[mA]	< 1.2
Operating voltage outside the hazardous area	[V]	5...25 DC
Immersion depth (side)	[mm]	5...7

**Wiring diagram**



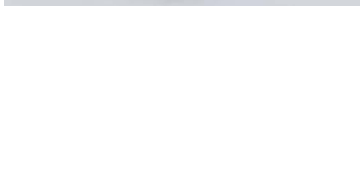



N7S20A, N7S23A



N7S21A

**Accessories**

Type	Description	Order no.
<b>Switching amplifiers with ATEX approval</b>		
	2 channel relay outputs	<b>N0033A</b>
	2 channel optocoupler output	<b>N0532A</b>
	2 channel transistor Outputs	<b>N0534A</b>
	1 channel relay output	<b>N0530A</b>

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