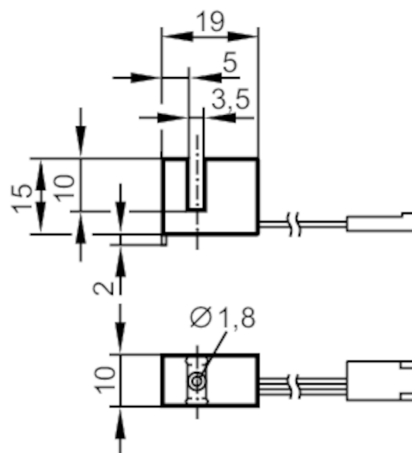


# N7S21A



## Inductive NAMUR slot sensor

I7S23,5-N /1G/1D



### Product characteristics

|                   |                 |
|-------------------|-----------------|
| Electrical design | NAMUR           |
| Output function   | normally closed |
| Housing           | rectangular     |
| Dimensions [mm]   | 19 x 10 x 15    |

### Electrical data

|                                    |                                                                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Connection to switching amplifiers | yes                                                                                                                                       |
| Switching amplifiers               | connection to certified intrinsically safe circuits with the max. values: $U = 15 \text{ V}$ / $I = 50 \text{ mA}$ / $P = 120 \text{ mW}$ |
| Nominal voltage DC [V]             | 8.2; (1k $\Omega$ )                                                                                                                       |
| Supply voltage DC [V]              | 5...25; (when used outside the hazardous area)                                                                                            |
| Current consumption [mA]           | < 1.2; (disabled; conductive: > 2,1)                                                                                                      |
| Protection class                   | III                                                                                                                                       |

### Outputs

|                             |                 |
|-----------------------------|-----------------|
| Electrical design           | NAMUR           |
| Output function             | normally closed |
| Switching frequency DC [Hz] | 3000            |

### Detection zone

|                                      |       |
|--------------------------------------|-------|
| Insertion depth (from the side) [mm] | 5...7 |
|--------------------------------------|-------|

### Accuracy / deviations

|                |          |
|----------------|----------|
| Hysteresis [%] | 0...0.05 |
|----------------|----------|

### Operating conditions

|                          |           |
|--------------------------|-----------|
| Ambient temperature [°C] | -40...100 |
| Protection               | IP 67     |

### Tests / approvals

|          |                                     |
|----------|-------------------------------------|
| Approval | BVS 08 ATEX E026; IECEx BVS 09.0016 |
|----------|-------------------------------------|

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## Inductive NAMUR slot sensor

I7S23,5-N /1G/1D

|              |                            |      |
|--------------|----------------------------|------|
| ATEX marking | II 1G Ex ia IIC T4 Ga      |      |
|              | II 1D Ex ia IIIC T125°C Da |      |
| EMC          | EN 60947-5-2               |      |
| MTTF [years] |                            | 2942 |

### Safety classification

|                                |     |
|--------------------------------|-----|
| Max. internal capacitance [nF] | 150 |
| Max. internal inductance [μH]  | 150 |

### Mechanical data

|                 |              |
|-----------------|--------------|
| Weight [g]      | 34           |
| Housing         | rectangular  |
| Dimensions [mm] | 19 x 10 x 15 |
| Slot width [mm] | 3.5          |
| Materials       | PBT          |

### Accessories

|                |                                                    |
|----------------|----------------------------------------------------|
| Items supplied | counter-sunk screw: 1 x M1,6 x 10, stainless steel |
|                | Hexagon nut: 1 x M1,6                              |

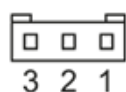
### Remarks

|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection - plug

Cable: 0.065 m; 2 x 0.14 mm<sup>2</sup>, PTFE

Connector: 1 x DUBOX



### Connection

