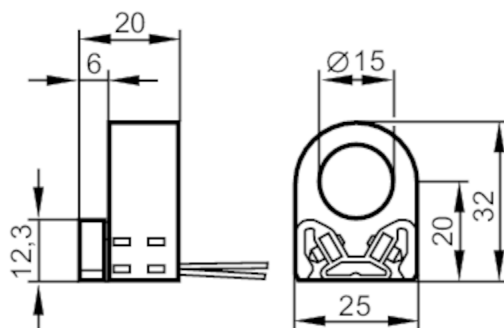


# N7R30A



## Inductive NAMUR ring sensor

I7R2015-N/2M/1G/1D



### Product characteristics

|                   |                 |
|-------------------|-----------------|
| Electrical design | NAMUR           |
| Output function   | normally closed |
| Housing           | circular        |
| Dimensions [mm]   | 32 x 25 x 20    |

### Electrical data

|                                    |                                                                                                             |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Connection to switching amplifiers | yes                                                                                                         |
| Switching amplifiers               | connection to certified intrinsically safe circuits with the max. values: U = 15 V / I = 50 mA / P = 120 mW |
| Nominal voltage DC [V]             | 8.2; (1kΩ)                                                                                                  |
| Current consumption [mA]           | < 1.2; (disabled); conductive: > 2,1)                                                                       |
| Protection class                   | III                                                                                                         |

### Outputs

|                   |                 |
|-------------------|-----------------|
| Electrical design | NAMUR           |
| Output function   | normally closed |

### Detection zone

|                                |    |
|--------------------------------|----|
| Measuring ball (diameter) [mm] | 6  |
| Max. travel speed [m/s]        | 25 |

### Accuracy / deviations

|                 |   |
|-----------------|---|
| Hysteresis [mm] | 1 |
|-----------------|---|

### Operating conditions

|                             |                              |
|-----------------------------|------------------------------|
| Ambient temperature [°C]    | -40...100                    |
| Note on ambient temperature | max. temperature span: 100 K |
| Protection                  | IP 67                        |

### Tests / approvals

|              |                                     |
|--------------|-------------------------------------|
| Approval     | BVS 08 ATEX E026; IECEx BVS 09.0016 |
| ATEX marking | Ex II 1G Ex ia IIC T4 Ga            |
|              | Ex II 1D Ex ia IIIC T125°C Da       |
| EMC          | EN 60947-5-2                        |
| MTTF [ANN]   | 3318                                |

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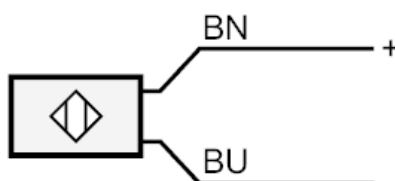


## Inductive NAMUR ring sensor

I7R2015-N/2M/1G/1D

| Safety classification     |      |              |
|---------------------------|------|--------------|
| Max. internal capacitance | [nF] | 150          |
| Max. internal inductance  | [μH] | 100          |
| Mechanical data           |      |              |
| Weight                    | [g]  | 66.7         |
| Housing                   |      | circular     |
| Dimensions                | [mm] | 32 x 25 x 20 |
| Inside diameter           | [mm] | 15           |
| Materials                 |      | PA 12-GF30   |
| Remarks                   |      |              |
| Pack quantity             |      | 1 pcs.       |

| Electrical connection                       |  |
|---------------------------------------------|--|
| Cable: 2 m; 2 x 0.14 mm <sup>2</sup> , PTFE |  |
| Connection                                  |  |



|      |                |
|------|----------------|
| BN = | Core colours : |
| BU = | brown          |
|      | blue           |