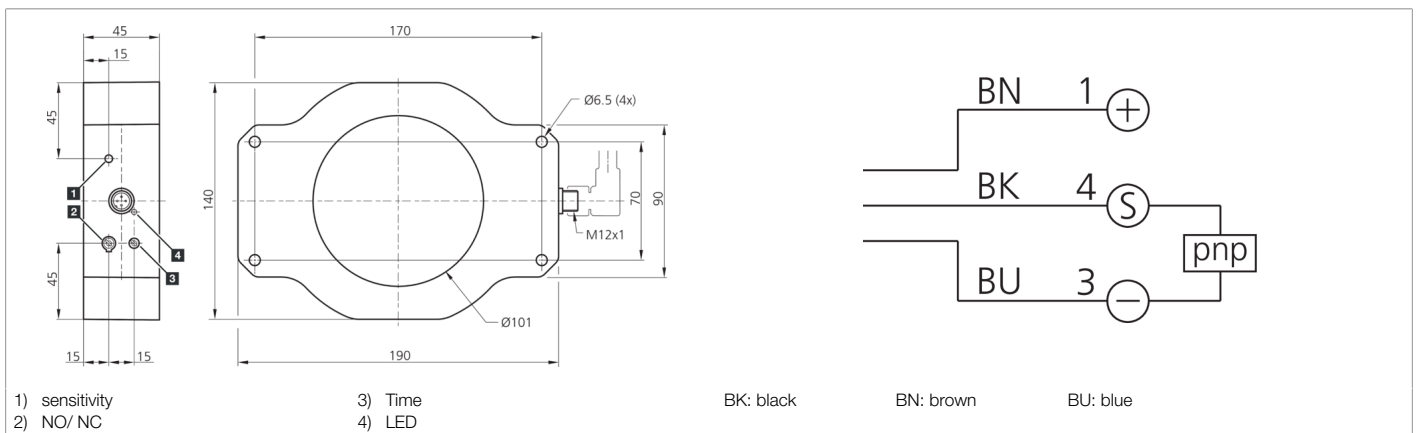




**203404**  
**IRD 100 PSOK-IBS**  
**Inductive ring sensor**

- High resolution
- Short response time
- Sensitivity and pulse stretching adjustable
- Resistant to dirt
- Dynamic operating principle
- Metal connector
- High protection type



| Function |  |  |  |  |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                         |
|----------|--|--|--|--|--|--|--|--|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |  |  |  |  |  |  |  |  |  |     |

| Technical data (typ.)                | +20°C, 24 V DC                           |
|--------------------------------------|------------------------------------------|
| Service voltage                      | 10 ... 35 V DC (Supply Class 2)          |
| No-load current (max.)               | 20 mA                                    |
| Insulation voltage endurance         | 1000 V                                   |
| Internal diameter                    | 101 mm                                   |
| Assembly distance to metal (min.)    | 30 mm                                    |
| Housing material                     | Plastic (PA)                             |
| Material                             | POM (Ring)                               |
| Protection class                     | III, operation on protective low voltage |
| Approvals                            | UL                                       |
| Operating principle                  | inductive                                |
| Evaluation                           | Dynamic                                  |
| Switching output                     | pnp, 200 mA, NO/NC, switchable           |
| Voltage drop (max.)                  | 2 V                                      |
| Pulse stretching                     | 0.1 ... 150 ms adjustable                |
| Resolution                           | Ø 5.0 mm                                 |
| Sensitivity adjustment               | Potentiometer                            |
| Speed of parts (max.)                | 25 m/s                                   |
| Speed of parts (min.)                | 0.1 m/s                                  |
| Response time                        | 0.20 ms                                  |
| Release time                         | 0.20 ms                                  |
| Ambient temperature during operation | -25 ... +70 °C                           |
| Protection type                      | IP 67                                    |
| Connection                           | Connector, M12, 4-pin, A-coded           |
| Connection cable                     | VK ...                                   |



203404

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Inductive ring sensor

[More information / accessories](#)

<https://www.di-soric.com/203404>