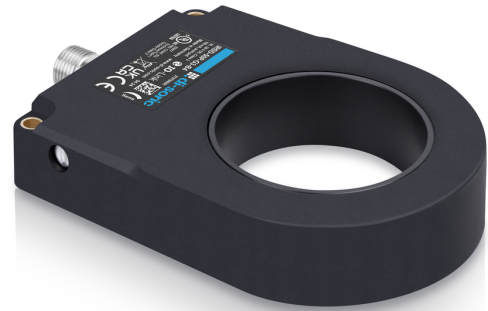




**213794**  
**IRSD-50P-G3-B4**  
**Inductive ring sensor**

- High resolution
- Short response time
- Sensitivity and pulse stretching adjustable
- Resistant to dirt
- Switchable between static and dynamic operating principle
- Metal connector
- High protection type
- Frequency switchable for reducing the installation distance
- Intelligent teach-in process
- Local and Remote can be set



0,1-2s: Teach  
 2-4s: Stat/Dyn  
 >4s: NO/NC

Poti locked

1) Ring diameter                      2) sensitivity                      BK: black                      BN: brown                      BU: blue                      WH: white

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

| Technical data (typ.)                | +20°C, 24 V DC   |
|--------------------------------------|--|
| Service voltage                      | 10 ... 30 V DC   |
| No-load current (max.)               | 30 mA  |
| Insulation voltage endurance         | 1000 V   |
| Internal diameter                    | 50.1 mm  |
| Housing material                     | Plastic (PA)   |
| Material                             | POM (Ring)   |
| Protection class                     | III, operation on protective low voltage   |
| Approvals                            | UL   |
| Operating principle                  | Dynamic/static switchable  |
| Switching output                     | Push-pull/PNP/NPN, 100 mA, NO/NC, switchable   |
| Voltage drop (max.)                  | 2 V  |
| Interface                            | IO-Link  |
| Pulse stretching                     | adjustable   |
| Resolution                           | Ø 2.5 mm (dynamic), Ø 6.0 mm (static)  |
| Sensitivity adjustment               | IO-Link, Potentiometer   |
| Speed of parts (max.)                | 35 m/s   |
| Speed of parts (min.)                | 0.1 m/s (dynamic)  |
| Readiness delay (max.)               | 300 ms   |
| Shock/vibration load                 | 30 g, 11 ms / 10 ... 55 Hz, 1.0 mm   |
| Ambient temperature during operation | -25 ... +70 °C   |
| Permissible relative humidity        | < 95% (+25°C) / < 90% (+40°C), non-condensing (increased humidity affects the sensor nominal resolution) |



213794

IRSD-50P-G3-B4

Inductive ring sensor

**Technical data (typ.)**

**+20°C, 24 V DC**

Protection type

IP 67

Connection

Connector, M12, 4-pin, A-coded

Connection cable

VK ...

**More information / accessories**

<https://www.di-soric.com/213794>