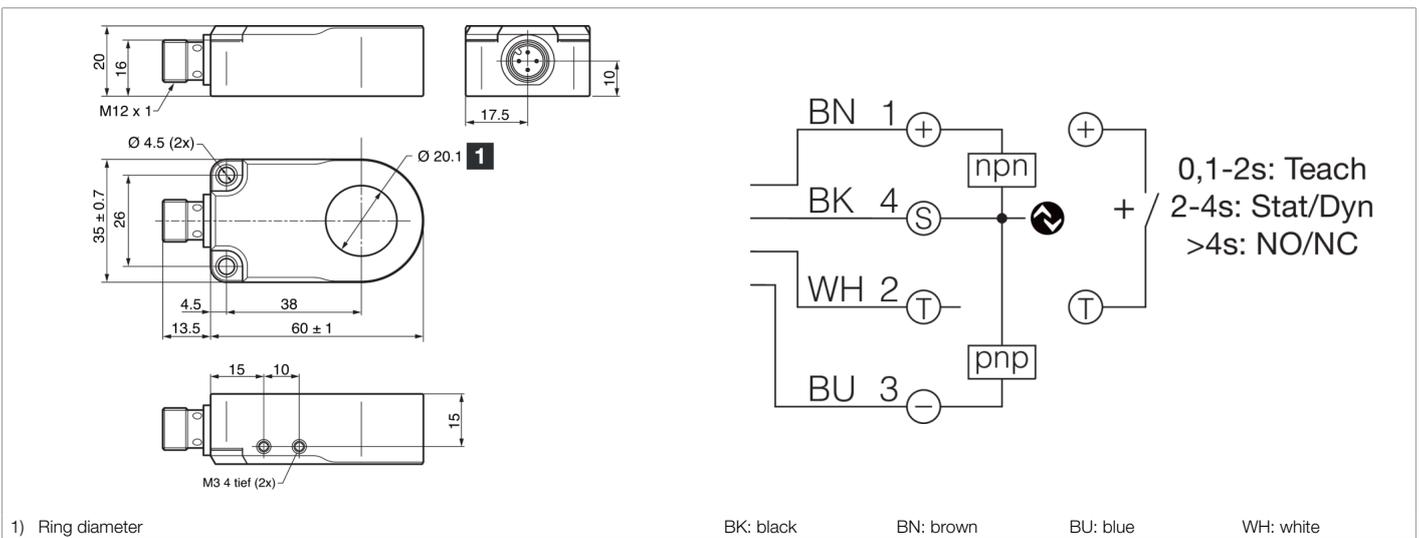




213669
IRSD-20-G3-B4
Inductive ring sensor

- 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
- Remote Teach



Function

| Technical data (typ.) | | +20°C, 24 V DC |
|----------------------------------|--|----------------|
| Electrical features | | |
| Service voltage | 10 ... 30 V DC | |
| No-load current (max.) | 30 mA | |
| Insulation voltage endurance | 500 V | |
| Mechanical features | | |
| Internal diameter | 20.1 mm | |
| Housing material | Plastic (PA) | |
| Material | POM (Ring) | |
| Certifications, approvals | | |
| Protection class | III, operation on protective low voltage | |
| Approvals | UL | |
| General features | | |
| Operating principle | Dynamic/static switchable (IO-Link / PIN 2) | |
| Output, input, interface | | |
| Switching output | Push-pull/PNP/NPN, 100 mA, NO/NC, switchable | |
| Voltage drop (max.) | 2 V | |
| Interface | IO-Link | |
| Pulse stretching | adjustable | |



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Inductive ring sensor

| | |
|---|--|
| Technical data (typ.) | +20°C, 24 V DC |
| Detection range, measuring range, tolerance limits | |
| Resolution steel ball (high functional reliability) | 1.7 mm (dynamic), 3.5 mm (static) |
| Resolution steel ball (smallest object size) | 1 mm (dynamic), 2.5 mm (static) |
| Display, operation | |
| Sensitivity adjustment | IO-Link |
| Time behavior | |
| Speed of parts (max.) | 35 m/s |
| Speed of parts (min.) | 0.1 m/s (dynamic) |
| Readiness delay (max.) | 300 ms |
| Ambient conditions | |
| 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) |
| Protection type | IP 67 |
| Electrical connection | |
| Connection | Connector, M12, 4-pin, A-coded |
| Accessories | |
| Connection cable | VK ... |
| More information / accessories | https://www.di-soric.com/213669 |