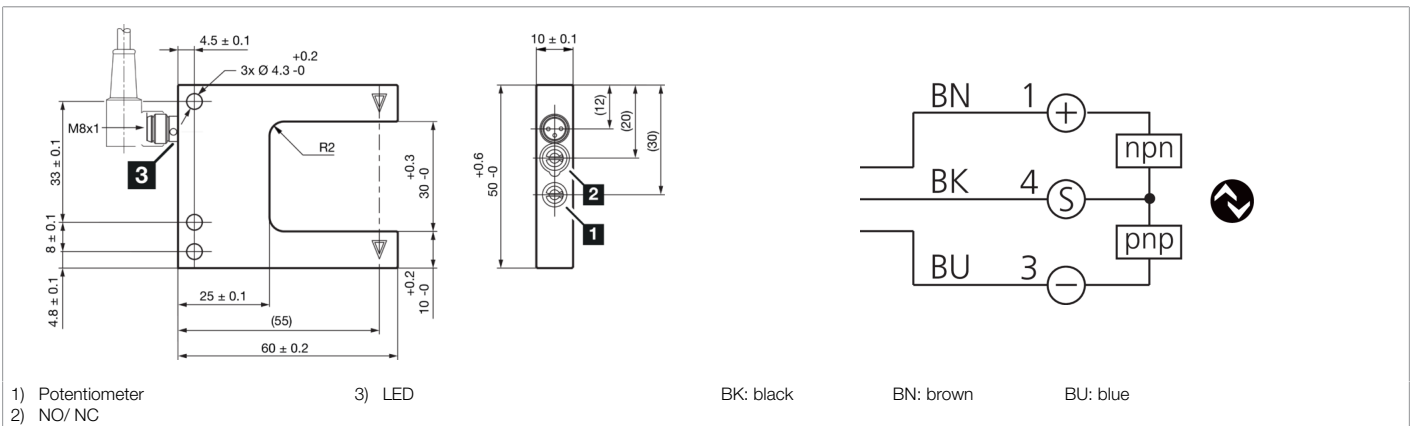


**211040**  
**OGUL 031 G3-T3**  
**Laser fork light barrier**

- Light/dark switching
- IO-Link
- 4 operating modes as an IO-Link parameter
- Switch-on/off delay as an IO-Link parameter
- Diagnostics with IO-Link
- Metal casing
- Electronics integrated
- High switching frequency
- Bright ring LED
- High protection type



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

| Technical data (typ.)        | +20°C, 24 V DC  |
|------------------------------|---|
| Service voltage              | 10 ... 30 V DC  |
| No-load current (max.)       | 30 mA   |
| Insulation voltage endurance | 500 V   |
| Leg length internal          | 35 mm   |
| Housing dimensions           | 50 x 60 x 10 mm   |
| Housing length               | 60 mm   |
| Housing height               | 50 mm   |
| Housing width                | 10 mm   |
| Housing material             | Die-cast zinc (Black, powder-coated)                          |
| Weight                       | 68 g  |
| Protection class             | III, operation on protective low voltage                      |
| Approvals                    | UL  |
| Operating principle          | Optical   |
| Evaluation                   | digital   |
| Design                       | Fork  |
| Operation modes              | STANDARD, HIGH RESOLUTION, POWER, SPEED                       |
| Switching output             | Push-pull, 100 mA, NO/NC                                      |
| Voltage drop (max.)          | 1 V   |
| Interface                    | IO-Link (V1.1, COM2 (38.4 kBd) Smart Sensor Profile)          |
| Light source                 | Laser   |
| Laser class                  | CLASS 1 LASER PRODUCT, 1 (IEC 60825-1:2014 / EN 60825-1:2014) |
| Color                        | red   |
| Modulation                   | Clocked   |



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| Technical data (typ.)                 | +20°C, 24 V DC  |
|---------------------------------------|---|
| Fork opening                          | 30 mm   |
| Resolution (factory setting)          | 0.05 mm (STANDARD)  |
| Reproducibility (factory setting)     | 0.01 mm (STANDARD)  |
| Resolution (STANDARD)                 | 0.05 mm   |
| Reproducibility (STANDARD)            | 0.01 mm   |
| Resolution (HIGH RESOLUTION)          | 0.03 mm   |
| Reproducibility (HIGH RESOLUTION)     | 0.01 mm   |
| Resolution (POWER)                    | 0.1 mm  |
| Reproducibility (POWER)               | 0.015 mm  |
| Resolution (SPEED)                    | 0.05 mm   |
| Reproducibility (SPEED)               | 0.015 mm  |
| Sensitivity adjustment                | Potentiometer or IO-Link  |
| Switching frequency (factory setting) | 5000 Hz (STANDARD)  |
| Switching frequency (STANDARD)        | 5000 Hz   |
| Switching frequency (HIGH RESOLUTION) | 2000 Hz   |
| Switching frequency (POWER)           | 1000 Hz   |
| Switching frequency (SPEED)           | 10000 Hz  |
| Ambient temperature during operation  | -25 ... +60 °C  |
| Protection type                       | IP 67   |
| Connection                            | Connector, M8, 3-pin  |
| Connection cable                      | TK ...  |
| <b>More information / accessories</b> | <a href="https://www.di-soric.com/211040">https://www.di-soric.com/211040</a> |