

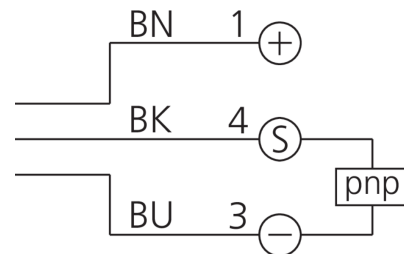
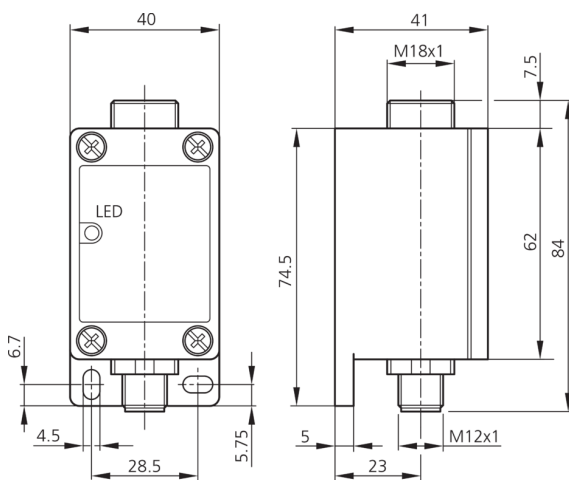


# 201451

## OLV 41 P3K-IBS

### Glass fiber-optic amplifier

- Metal casing
- Red light
- Sensitivity is adjustable
- High switching frequency
- Light/dark switching
- Time module optionally available



BK: black      BN: brown      BU: blue

#### Function



#### Technical data (typ.)

+20°C, 24 V DC

#### Electrical features

|                              |                |
|------------------------------|----------------|
| Service voltage              | 12 ... 35 V DC |
| No-load current (max.)       | 55 mA          |
| Insulation voltage endurance | 500 V          |

#### Mechanical features

|                  |                         |
|------------------|-------------------------|
| Housing length   | 74.5 mm                 |
| Housing height   | 41 mm                   |
| Housing width    | 40 mm                   |
| Housing material | Die-cast zinc (painted) |

#### Certifications, approvals

|                  |                                          |
|------------------|------------------------------------------|
| Protection class | III, operation on protective low voltage |
|------------------|------------------------------------------|

#### General features

|               |                        |
|---------------|------------------------|
| Amplifier for | Glass fiber optics M18 |
| Evaluation    | digital                |
| Design        | Cuboid design          |

#### Output, input, interface

|                  |                                  |
|------------------|----------------------------------|
| Switching output | pnp, 200 mA, NO/NC, programmable |
|------------------|----------------------------------|



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**OLV 41 P3K-IBS**  
**Glass fiber-optic amplifier**

| Technical data (typ.)                                     |                                | +20°C, 24 V DC                                                                |
|-----------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------|
| <b>Optical data</b>                                       |                                |                                                                               |
| Light source                                              | LED                            |                                                                               |
| Color                                                     | Red                            |                                                                               |
| Wavelength                                                | 660 nm                         |                                                                               |
| Modulation                                                | Clocked                        |                                                                               |
| Ambient light immunity                                    | 20 kLx                         |                                                                               |
| <b>Detection range, measuring range, tolerance limits</b> |                                |                                                                               |
| Range                                                     | Dependent on fiber-optic cable |                                                                               |
| Switching hysteresis (max.)                               | 10 %                           |                                                                               |
| Reproducibility                                           | < 2 %                          |                                                                               |
| <b>Display, operation</b>                                 |                                |                                                                               |
| Sensitivity adjustment                                    | Potentiometer                  |                                                                               |
| <b>Time behavior</b>                                      |                                |                                                                               |
| Switching frequency                                       | 1500 Hz                        |                                                                               |
| Response time                                             | 0.33 ms                        |                                                                               |
| Release time                                              | 0.33 ms                        |                                                                               |
| <b>Ambient conditions</b>                                 |                                |                                                                               |
| Ambient temperature during operation                      | -10 ... +60 °C                 |                                                                               |
| Temperature drift                                         | 0.3 %/K                        |                                                                               |
| Protection type                                           | IP 65                          |                                                                               |
| <b>Electrical connection</b>                              |                                |                                                                               |
| Connection                                                | Connector, M12, 3-pin          |                                                                               |
| <b>More information / accessories</b>                     |                                | <a href="https://www.di-soric.com/201451">https://www.di-soric.com/201451</a> |