

## Technical data sheet

### Fiber optic amplifier

Part no.: 50151463

LV462C/24

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For illustration purposes only



## Technical data

### Basic data

|              |                      |
|--------------|----------------------|
| Series       | 462C                 |
| Suitable for | Glass fiber optics   |
|              | Plastic fiber optics |

### Optical data

|                          |          |
|--------------------------|----------|
| Light source             | LED, Red |
| Wavelength               | 623 nm   |
| Transmitted-signal shape | Pulsed   |

### Electrical data

|                        |                              |
|------------------------|------------------------------|
| Protective circuit     | Polarity reversal protection |
|                        | Short circuit protected      |
| Fiber optic connection | Clamp                        |

### Performance data

|                      |                        |
|----------------------|------------------------|
| Supply voltage $U_B$ | 12 ... 24 V, DC        |
| Residual ripple      | 0 ... 10 %, From $U_B$ |
| Open-circuit current | 0 ... 50 mA            |

### Outputs

|                                     |            |
|-------------------------------------|------------|
| Number of digital switching outputs | 2 Piece(s) |
|-------------------------------------|------------|

### Switching outputs

|                         |                          |
|-------------------------|--------------------------|
| Type                    | Digital switching output |
| Voltage type            | DC                       |
| Switching current, max. | 100 mA                   |
| Switching voltage       | high: $\geq(U_B - 2.5V)$ |
|                         | low: $\leq 2.5 V$        |

### Switching output 1

|                     |                       |
|---------------------|-----------------------|
| Switching element   | Transistor, NPN       |
| Switching principle | Light/dark switchable |

### Switching output 2

|                     |                       |
|---------------------|-----------------------|
| Switching element   | Transistor, PNP       |
| Switching principle | Light/dark switchable |

### Time behavior

|                               |                      |
|-------------------------------|----------------------|
| Switching frequency PO1 - PO2 | 250 Hz               |
| Switching frequency PO3 - PO5 | 1,500 Hz             |
| Response time PO1 - PO2       | 2 ms                 |
| Response time PO3 - PO5       | 0.33 ms              |
| Switch-on/-off delay          | Switch-on/-off delay |
| Readiness delay               | 500 ms               |

### Connection

|                       |            |
|-----------------------|------------|
| Number of connections | 1 Piece(s) |
|-----------------------|------------|

### Connection 1

|                      |                |
|----------------------|----------------|
| Function             | Signal OUT     |
|                      | Voltage supply |
| Type of connection   | Cable          |
| Cable length         | 2,000 mm       |
| Cable color          | Black          |
| Number of conductors | 4 -wire        |

### Mechanical data

|                       |                              |
|-----------------------|------------------------------|
| Design                | Cubic                        |
| Dimension (W x H x L) | 10 mm x 33 mm x 79.4 mm      |
| Housing material      | Plastic                      |
| Plastic housing       | ABS                          |
| Net weight            | 65 g                         |
| Housing color         | Black                        |
| Type of fastening     | Via optional mounting device |

### Operation and display

|                                     |                            |
|-------------------------------------|----------------------------|
| Type of display                     | LED                        |
| Number of LEDs                      | 1 Piece(s)                 |
| Operational controls                | Control buttons            |
| Function of the operational control | Sensitivity adjustment     |
|                                     | Switching range adjustment |

### Environmental data

|                                    |               |
|------------------------------------|---------------|
| Ambient temperature, operation     | -10 ... 60 °C |
| Relative humidity (non-condensing) | 35 ... 85 %   |

### Certifications

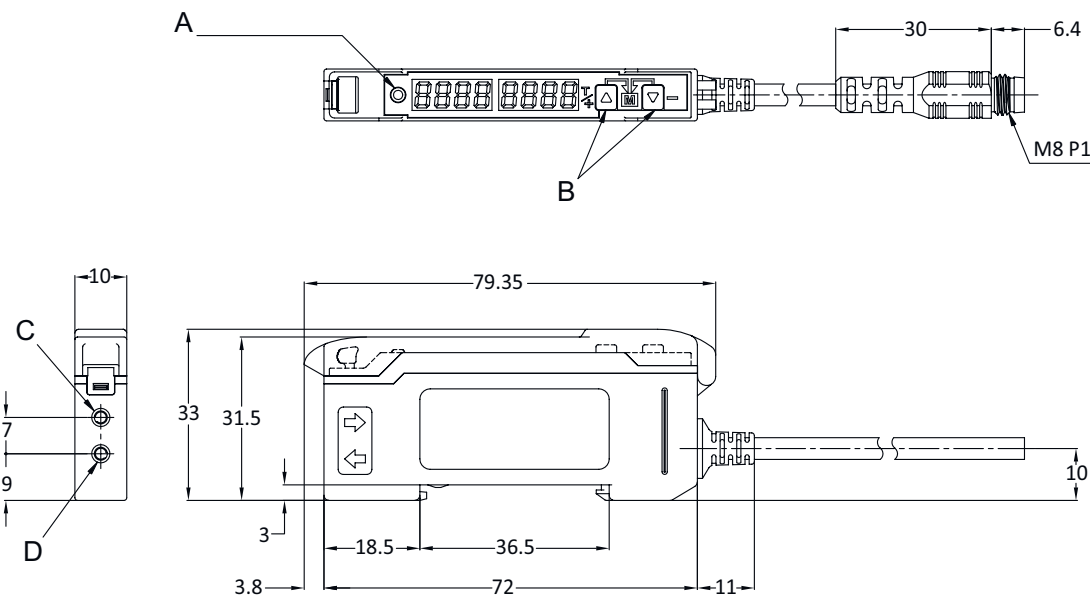
|                      |               |
|----------------------|---------------|
| Degree of protection | IP 50         |
| Standards applied    | IEC 60947-5-2 |

### Classification

|                       |          |
|-----------------------|----------|
| Customs tariff number | 85423390 |
| ECLASS 5.1.4          | 27270905 |
| ECLASS 8.0            | 27270905 |
| ECLASS 9.0            | 27270905 |
| ECLASS 10.0           | 27270905 |
| ECLASS 11.0           | 27270905 |
| ECLASS 12.0           | 27270905 |
| ECLASS 13.0           | 27270905 |
| ECLASS 14.0           | 27270905 |
| ECLASS 15.0           | 27270905 |
| ECLASS 16.0           | 27270905 |
| ETIM 5.0              | EC002651 |
| ETIM 6.0              | EC002651 |
| ETIM 7.0              | EC002651 |
| ETIM 8.0              | EC002651 |
| ETIM 9.0              | EC002651 |
| ETIM 10.0             | EC002651 |

Dimensioned drawings

All dimensions in millimeters



- A LED indicator
- B Sensitivity adjustment
- C Connection for fiber optics receiver
- D Connection for fiber optics transmitter

Electrical connection

Connection 1

|                      |                |
|----------------------|----------------|
| Function             | Signal OUT     |
|                      | Voltage supply |
| Type of connection   | Cable          |
| Cable length         | 2,000 mm       |
| Cable color          | Black          |
| Number of conductors | 4 -wire        |

Conductor color

Conductor assignment

|       |       |
|-------|-------|
| Brown | V+    |
| Black | OUT 1 |
| White | OUT 2 |
| Blue  | GND   |

Notes

Observe intended use!

- This product is not a safety sensor and is not intended as personnel protection.
- The product may only be put into operation by competent persons.
- Only use the product in accordance with its intended use.