

## Expander Laser, red, 635 nm, 1 mW

E635-1-3(24x96)APT20  
Order Number: 70127607

| Main Parameters (*)   | min | typ | max | Unit |
|-----------------------|-----|-----|-----|------|
| Wavelength            |     | 635 |     | nm   |
| Optical Output Power  |     | 1   |     | mW   |
| Operating Voltage     | 2.7 | 3   | 3.3 | V DC |
| Operating Current     | 20  | 35  | 55  | mA   |
| Operating Temperature | -20 |     | 50  | °C   |
| Storage Temperature   | -40 |     | 80  | °C   |

### Main Data

|          |         |
|----------|---------|
| Warranty | 1 years |
|----------|---------|

### Technical Parameters

|          |           |
|----------|-----------|
| Lifetime | > 5,000 h |
| RoHS     | yes       |

### Optical Parameters

|                                      |                      |
|--------------------------------------|----------------------|
| Beam Shape                           | expander             |
| Laser Class                          | 2                    |
| Operating Distance                   | 10 m                 |
| Optics                               | glass lens AR coated |
| Laser technology                     | Single Mode Diode    |
| Opt. Power Stability at const. Temp. | < 1 %                |
| Focus                                | adjustable           |

### Electrical Parameters

|                      |                                                                                                                |
|----------------------|----------------------------------------------------------------------------------------------------------------|
| Potential of Housing | isolated                                                                                                       |
| Power Supply         | Power Supply with stripped/tinned wires, Output: 3.3V DC, Input: 100-240V AC, 50-60Hz, Output Power: 3.3W max. |

### Mechanical Parameters

|                   |                         |
|-------------------|-------------------------|
| Size              | Ø24x96 mm               |
| Material          | aluminium               |
| Cable length      | 200 mm                  |
| Wire type         | Belden, Typ 1007, 26AWG |
| Output Aperture   | 20 mm                   |
| Housing Color     | black                   |
| Weight            | 75 g                    |
| Stripping of wire | 5 mm                    |

(\*) Over the complete operating temperature range

## Features



- Operating Voltage 3V DC
- Image processing
- Laser Class 2
- Glas lenses anti reflex coated
- Adjustable focus

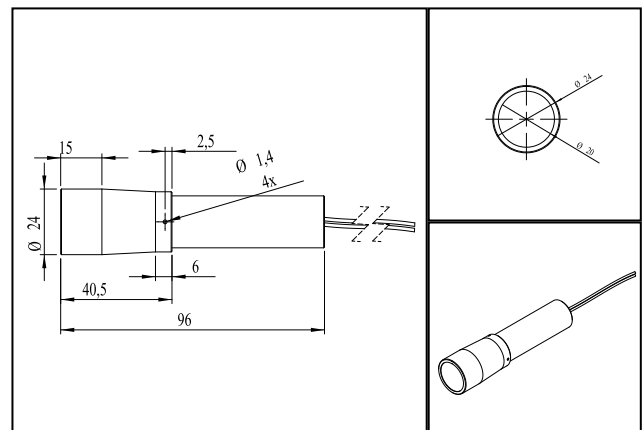
## Picture



## Cable color

|          |                                                                                    |       |                       |
|----------|------------------------------------------------------------------------------------|-------|-----------------------|
| Ground   |  | black | GND                   |
| Positive |  | red   | 2.7 - 3.3, typ 3 V DC |

## Drawing



## Safety Label



## Valid Revision

| 25-MAY-2020