



TL50

954651000

TL50-W-815
TL/LD LENS FOCUSING AT 9 MM

OVERVIEW

TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|-----------|
| Nominal sensing distance | 9mm |
| Spot dimension | 1,5 x 5mm |
| Sensitivity adjustment | Teach-in |

Application

| | |
|--------------------|-------------------------------|
| Function Principle | Contrast mark detection |
| Description | Standard case - vertical spot |
| Optic position | axial |
| Functions | Contrast mark detection |

Outputs

| | |
|---------------------|-------------------------|
| Output type | NPN/PNP Dark/Light sel. |
| Output Function | Dark/Light sel. |
| Switching frequency | 15 kHz |
| Response time | 0,033 (15kHz) |

Electrical data

| | |
|----------------------------------|---|
| Operating Voltage | 10...30VDC |
| No-Load supply current | $\leq 50\text{mA}$ |
| Output voltage drop | $\leq 2\text{V}@I_{\text{load}}=100\text{mA}$ |
| LED indicators | Yellow (output state) Green (Ready) Orange (delay) |
| Short-circuit protection | YES |
| Reverse Polarity Protection | Yes |
| Emission | LED RGB |
| Interference to external light | according to EN 60947-5-2 : 2020 |
| Impulsive Overvoltage Protection | Yes |
| Insulation resistance | $>20\text{ M}\Omega$ 500 Vdc, between electronics and housing |
| Contact resistance | 500 Vac 1 min., between electronics and housing |

Mechanical data

| | |
|------------|----------|
| Dimensions | 31x53x80 |
|------------|----------|

| | |
|----------------------|----------------------|
| Housing Material | Plastic - ABS / PMMA |
| Connections | M12 plug |
| Active Head Material | Glass |
| Storage temperature | - 25°C...+70°C |
| Material | |
| Diameter/Dimension | Cubic |

Test/Approvals

| | |
|-----------------------|--|
| Approvals | CE cULus |
| Shocks and vibrations | 0.5 mm amplitude, 10 ... 55 Hz frequency, for every axis (EN60068-2-6) |

Generical Data

| | |
|-----------------------|-----------------|
| Dimensions | 31x53x80 |
| Operating Temperature | - 10°C...+ 55°C |
| Mechanical Protection | IP67 |

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