



TLU

964401080

TL μ -111

ALL REGISTRATION MARK DETECTION APPLICATIONS

OVERVIEW

- Teach-in, Remote settings
- Red/green or white LED emission
- Various interchangeable lenses and fiber-optic models
- Metal housing with orientable optics and connector

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 | Radial 90° |

| | |
|-----------|-------------------------|
| Functions | Contrast mark detection |
|-----------|-------------------------|

Outputs

| | |
|-------------|--------------------|
| Output type | PNP L/D selectable |
|-------------|--------------------|

| | |
|-----------------|----------------|
| Output Function | L/D selectable |
|-----------------|----------------|

| | |
|---------------|--------------|
| Response time | 0,05 (10kHz) |
|---------------|--------------|

Electrical data

| | |
|-------------------|------------|
| Operating Voltage | 10...30VDC |
|-------------------|------------|

| | |
|------------------------|--------|
| No-Load supply current | ≤ 80mA |
|------------------------|--------|

| | |
|---------------------|-----|
| Output voltage drop | ≤2V |
|---------------------|-----|

| | |
|----------------|-----------------------|
| LED indicators | red OUTPUT greenREADY |
|----------------|-----------------------|

| | |
|--------------------------|-----|
| Short-circuit protection | YES |
|--------------------------|-----|

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|-----------------------------|-----|
| Reverse Polarity Protection | Yes |
|-----------------------------|-----|

| | |
|----------|---------|
| Emission | LED RGB |
|----------|---------|

| | |
|--------------------------------|----------------------------------|
| Interference to external light | according to EN 60947-5-2 : 2020 |
|--------------------------------|----------------------------------|

| | |
|----------------------------------|-----|
| Impulsive Overvoltage Protection | Yes |
|----------------------------------|-----|

Mechanical data

| | |
|------------|----------|
| Dimensions | 31x58x82 |
|------------|----------|

| | |
|------------------|---------------|
| Housing Material | Metal - Zamak |
|------------------|---------------|

| | |
|----------------------|----------------|
| Connections | 2m cable |
| Active Head Material | Glass |
| Storage temperature | - 20°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 | 31x58x82 |
| Operating Temperature | -10°C ... 55°C |
| Mechanical Protection | IP67 |

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**date of
printing**
23/11/2024
15:23:15