



LD46

955201010

LD46-UL-755

LUMINESCENCE SENSOR LINE IN STANDARD METAL HOUSING

OVERVIEW

- UV high power LED emission
- High sensitivity on fluorescent marks
- 10 - 50 mm detection distance
- 2 kHz switching frequency
- NPN/PNP and 0-5 V analog outputs

TECHNICAL FEATURES

Detection properties

| | |
|--------------------------|------|
| Nominal sensing distance | 40mm |
|--------------------------|------|

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|------------------------|----------|
| Sensitivity adjustment | Teach-in |
|------------------------|----------|

Application

| | |
|--------------------|----------------------------|
| Function Principle | Luminescent mark detection |
|--------------------|----------------------------|

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|-------------|-------------------------------|
| Description | Standard case - vertical spot |
|-------------|-------------------------------|

| | |
|----------------|-------|
| Optic position | axial |
|----------------|-------|

| | |
|-----------|----------------------------|
| Functions | Luminescent mark detection |
|-----------|----------------------------|

Outputs

| | |
|-------------|----------------------------------|
| Output type | NPN/PNP - Dark/Light sel., 0-5 V |
|-------------|----------------------------------|

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|---------------|------|
| Response time | 0,25 |
|---------------|------|

Electrical data

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

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

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

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|----------|--------|
| Emission | LED UV |
|----------|--------|

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

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

| | |
|-----------------------|---|
| Insulation resistance | >20 MΩ 500 Vdc, between electronics and housing |
|-----------------------|---|

| | |
|--------------------|---|
| Contact resistance | 500 Vac 1 min., between electronics and housing |
|--------------------|---|

Mechanical data

| | |
|------------|----------|
| Dimensions | 32x60x82 |
|------------|----------|

| | |
|------------------|---------------------------|
| Housing Material | Metal - Aluminium / Glass |
|------------------|---------------------------|

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|-------------|----------|
| Connections | M12 plug |
|-------------|----------|

| | |
|----------------------|-------|
| Active Head Material | Glass |
|----------------------|-------|

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|---------------------|----------------|
| Storage temperature | - 25°C...+70°C |
|---------------------|----------------|

Material

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

32x60x82

Mechanical Protection

IP67

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