



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

Sensitivity adjustment Teach-in

Application

Function Principle Luminescent mark detection

Description Standard case - vertical spot

Optic position axial

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

Outputs

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

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

Electrical data

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

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

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

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

| | |
|--------------------------------|----------------------------------|
| 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 |
|------------------|---------------------------|

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

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

| | |
|---------------------|----------------|
| 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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