

Czujniki luminescencji LUT3

LUT3-610



Nazwa modelu > **LUT3-610**

Numer części > **1015396**

At a glance

- Tough metal housing
- Sensing distance: 10, 20 or 50 mm
- Sensing distances selectable through interchangeable lenses
- Transmitter LED UV (375 nm)

Your benefits

- Sensitivity of the sensor can be infinitely adjusted using a potentiometer, saves time and reduces costs
- Filters ensure that background luminescence is reliably suppressed, ensuring greater process reliability
- Interchangeable lenses for different sensing distances provide flexibility



!Features!

Wymiary (dł. x szer. x wys.):	80 mm x 30,4 mm x 53 mm
Sensing distance:	10 mm ¹⁾
Nadajnik światła:	UV-LED ²⁾
Light emission:	long side
Receiving filters:	KV 418 (Standard)
Operating range:	0 mm ... 15 mm
Receiving range:	450 nm ... 750 nm
Nastawa:	Manual (rotary switch)
Średnica plamki świetlnej:	2 mm x 6 mm
Kierunek plamki świetlnej:	longitudinal

¹⁾ Od przedniej powierzchni soczewki; ²⁾ Average service life 100,000 h at T_a = +25 °C; ³⁾ Długość fali: 375 nm;

!Mechanics/electronics!

Napięcie zasilania VS:	DC 12 V ... 30 V ¹⁾
Tętnienia resztkowe:	< 2 Vss ²⁾
Pobór prądu:	< 60 mA ³⁾
Switching frequency:	1,5 kHz ⁴⁾
Czas reakcji:	350 μs ⁵⁾
Wyjście przełączające:	NPN: HIGH = approx. VS / LOW ≤ 2 V, PNP: HIGH = VS- ≤ 3 V / LOW = approx. 0 V
Tryb przełączania:	PNP/NPN
Sposób przyłączenia:	Wtyk M12, 4-pinowe

VDE protection class:

II⁶⁾

Układ zabezpieczenia:

A = VS connections reverse-polarity protected
Wyjście Q zabezpieczone przed zwarciami
Tłumienie interferencji

Rodzaj zabezpieczenia:

IP 67

Ciężar:

ca. 400 g

Housing material:

Cynkowa, odlewana

Tryb przełączania:

Przełączanie na jasnym

Output current I_{max}:

100 mA

1) Limit values: operation in short-circuit protected network max. 8 A; 2) May not exceed or fall short of V_S tolerances; 3) Bez obciążenia; 4) With light/dark ratio 1:1, no time delay; 5) Signal transit time with resistive load; 6) Reference voltage 50 V DC;

!Ambient data!

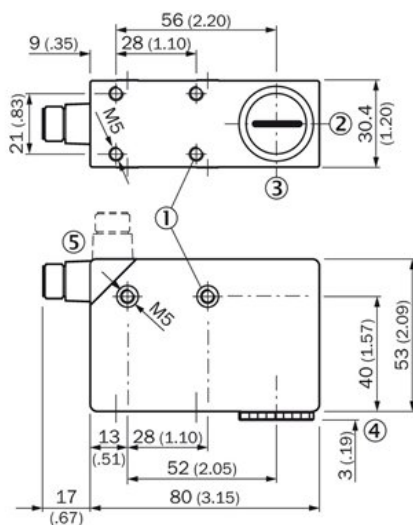
Ambient temperature:

Operation: -10 ... 55 °C
Storage: -25 ... 75 °C

Shock load:

According to IEC 60068

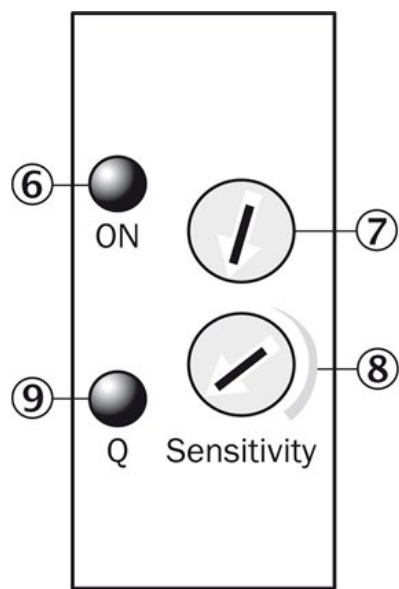
Rysunek techniczny



All dimensions in mm (inch)

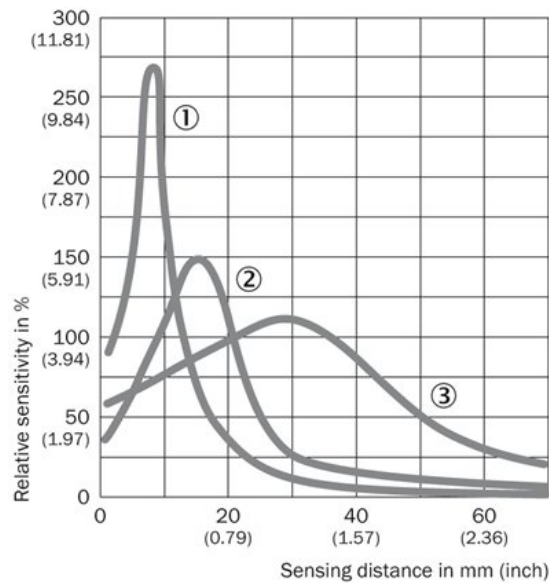
- [1] M5 threaded mounting hole, 5.5 mm deep
- [2] Kierunek płamki świetlnej
- [3] Center of optical axis
- [4] See dimensional drawing for lens
- [5] Connector M12 (rotatable through 90°)

Adjustments



- |6| Function signal indicator (green)
- |7| Not used
- |8| Sensitivity adjustment
- |9| Function signal indicator (yellow), switching output

Sensing distance

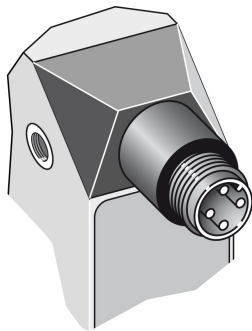


- |1| Sensing distance 10 mm
- |2| Sensing distance 20 mm
- |3| Sensing distance 50 mm

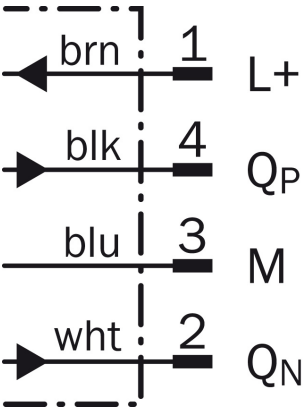
Light spot size

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Typ połączenia



Schemat połączenia



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