

## Czujniki luminescencji LUT8

LUT8U-11301



Nazwa modelu > **LUT8U-11301**

Numer części > **1047043**



#### At a glance

- Tough metal housing
- Simple sensitivity adjustment in 8 stages
- Bar graph display provides information about the luminescence intensity
- Sensing distances selectable through interchangeable lenses
- Additional optical filters suppress background luminescence
- Fiber-optic cable connection (with 20 mm lens)
- Switching and analog output

#### Your benefits

- An 8-step rotary switch easily adjusts to accurately determine the switching output position for different materials
- Bar graph display provides continual process control through easy visualization of the luminescence intensity
- Filters ensure that background luminescence is reliably suppressed, ensuring greater process reliability
- Interchangeable lenses for different sensing distances provide flexibility



#### Cechy

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Wymiary (dł. x szer. x wys.):                    | 80 mm x 30,4 mm x 53 mm |
| Sensing distance <sup>1)</sup> :                 | 50 mm                   |
| Zasięg roboczy:                                  | 20 mm 70 mm             |
| Nadajnik światła <sup>2)</sup> , <sup>3)</sup> : | UV-LED                  |
| Light emission:                                  | Long side               |
| Średnica plamki świetlnej:                       | 5 mm x 15 mm            |
| Kierunek plamki świetlnej:                       | Vertical                |
| Receiving filters:                               | KV 418 (standard)       |
| Receiving range:                                 | 450 nm ... 750 nm       |
| Nastawa:                                         | Manual (rotary switch)  |
| Tryb przełączania:                               | Przełączanie na jasnym  |

<sup>1)</sup> Od przedniej powierzchni soczewki <sup>2)</sup> Average service life of 100,000 h at T<sub>A</sub> = +25 °C <sup>3)</sup> Długość fali: 375 nm

#### Mechanika/elektronika

|                                       |                  |
|---------------------------------------|------------------|
| Napięcie zasilania VS <sup>1)</sup> : | DC 12 V ... 30 V |
| Tętnienia resztkowe <sup>2)</sup> :   | < 5 Vss          |
| Pobór prądu <sup>3)</sup> :           | < 100 mA         |

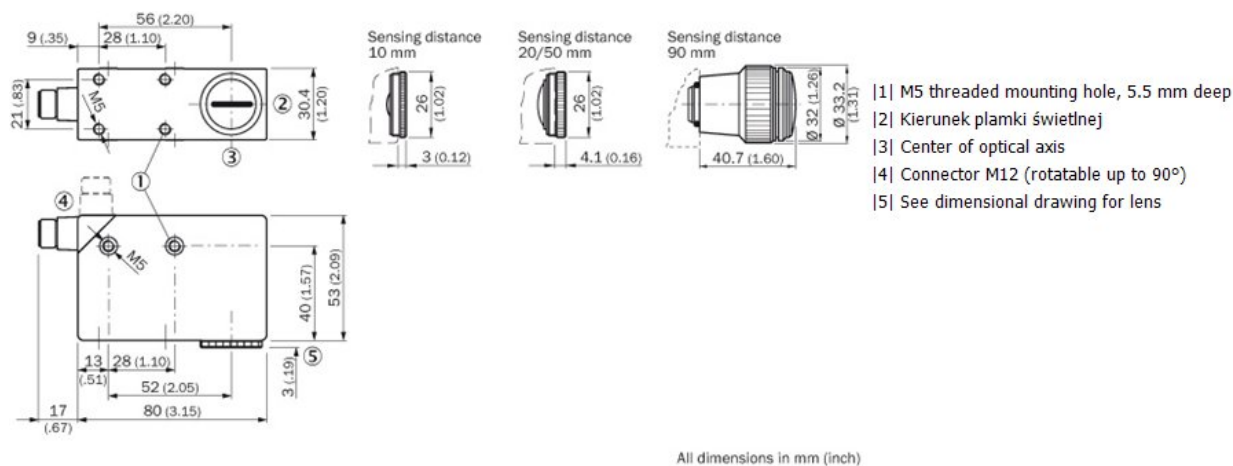
|                                     |                                                                                                                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Switching frequency <sup>4)</sup> : | 2,5 kHz                                                                                                         |
| Czas reakcji <sup>5)</sup> :        | 200 µs                                                                                                          |
| Switching output:                   | NPN: HIGH = approx. VS / LOW ≤ 2 V<br>PNP: HIGH = VS- ≤ 3 V / LOW = approx. 0 V                                 |
| Tryb przełączania:                  | PNP/NPN                                                                                                         |
| Wyjście analogowe QA:               | 0 mA ... 13 mA                                                                                                  |
| Output current I <sub>max</sub> :   | 100 mA                                                                                                          |
| Electrical connection:              | Connector M12, 5-pin                                                                                            |
| Klasa ochronności <sup>6)</sup> :   | II                                                                                                              |
| Układ zabezpieczenia:               | Wyjście Q zabezpieczone przed zwarciami<br>Tłumienie interferencji<br>Vs connections reverse-polarity protected |
| Rodzaj zabezpieczenia:              | IP 67                                                                                                           |
| Ciężar:                             | Ca. 400 g                                                                                                       |
| Housing material:                   | Cynkowa, odlewana                                                                                               |

1) Limit values: operation in short-circuit protected network max. 8 A    2) May not exceed or fall short of V<sub>S</sub> tolerances    3) Bez obciążenia    4) With light/dark ratio 1:1    5)  
Signal transit time with resistive load    6) Reference voltage DC 50 V

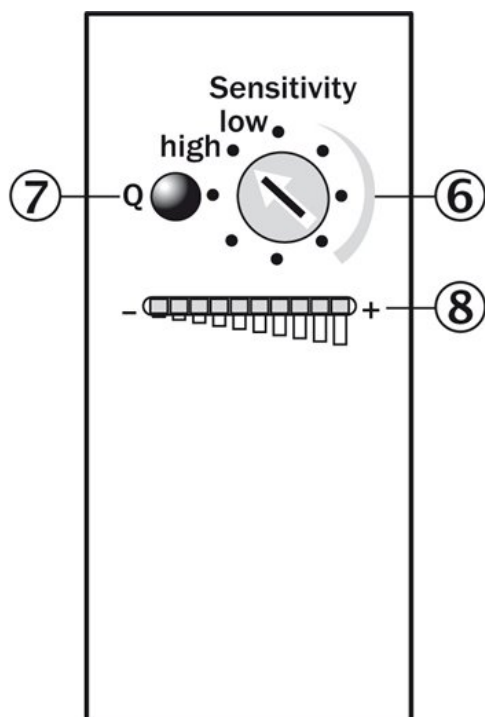
## Dane otoczenia

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Ambient temperature:    | Operation: -10 ... 55 °C, Storage: -25 ... 75 °C |
| Obciążenie uderzeniowe: | Zgodnie z IEC 60068                              |

## Dimensional drawing

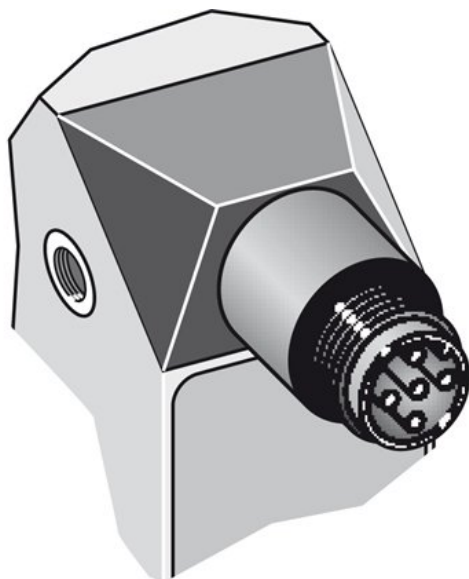


## Adjustments

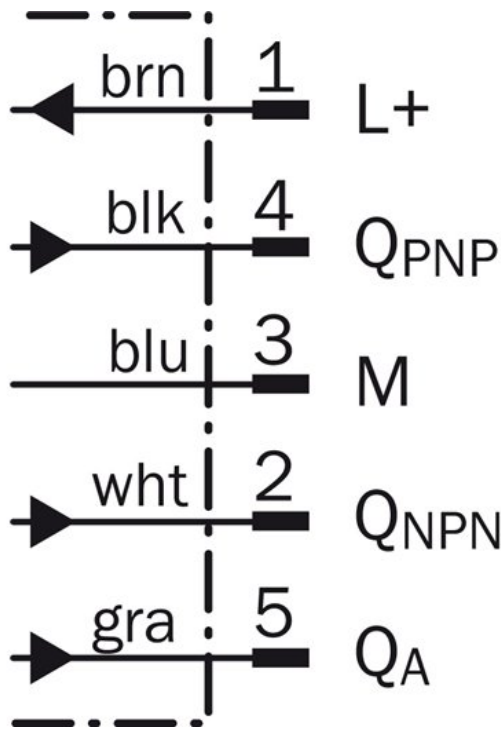


- |6| Rotary selection switch
- |7| Function signal indicator (yellow), switching output
- |8| Bar graph (green), Power on left LED

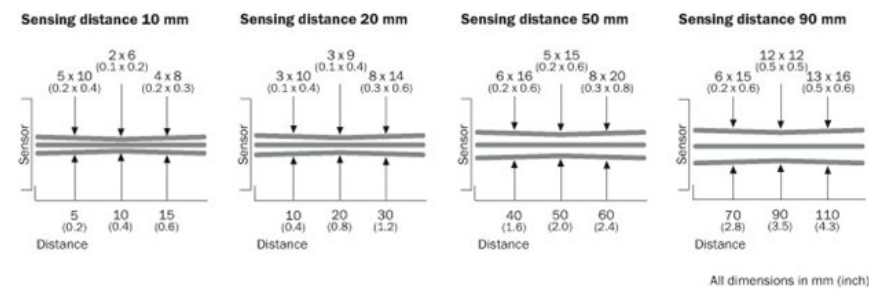
## Connection type



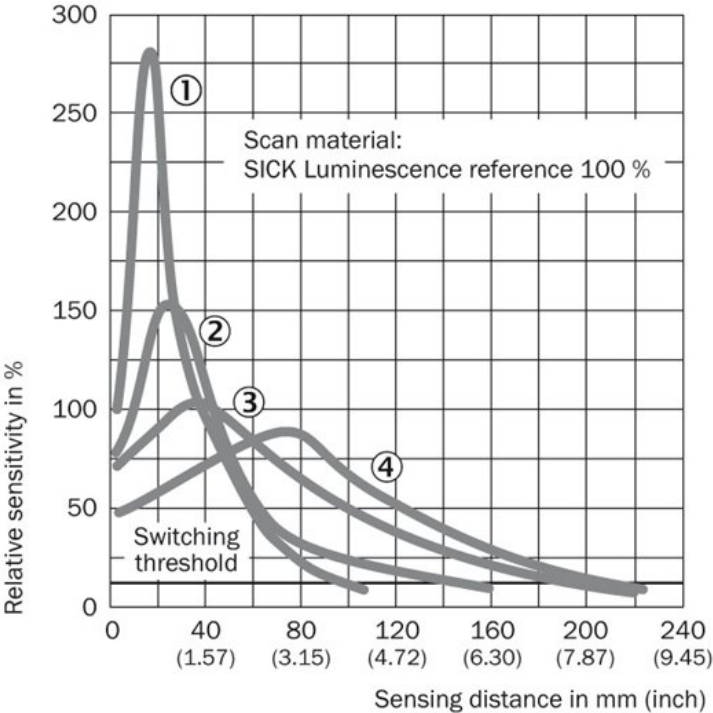
Connection diagram



Średnica plamki świetlnej



Sensing distance



- |1| Sensing distance 10 mm
- |2| Sensing distance 20 mm
- |3| Sensing distance 50 mm
- |4| Sensing distance 90 mm

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