



Czujniki luminescencji LUT8

LUT8U-11101



Nazwa modelu > **LUT8U-11101**

Numer części > **1046711**



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 ¹⁾ :	10 mm
Zasięg roboczy:	0 mm 20 mm
Nadajnik światła ²⁾ , ³⁾ :	UV-LED
Light emission:	Long side
Średnica plamki świetlnej:	2 mm x 6 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

¹⁾ Od przedniej powierzchni soczewki ²⁾ Average service life of 100,000 h at $T_A = +25^\circ\text{C}$ ³⁾ Długość fali: 375 nm

Mechanika/elektronika

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

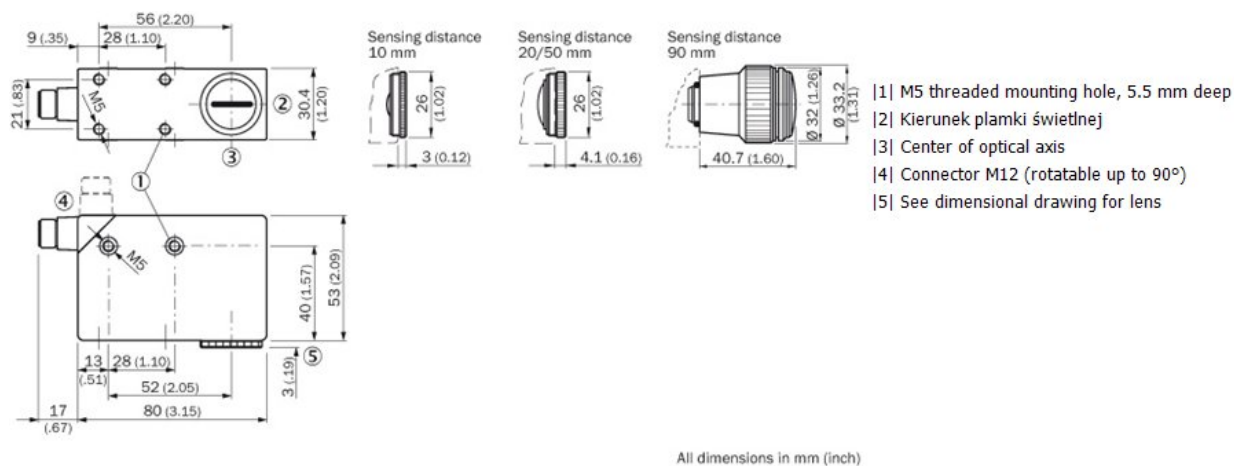
Switching frequency ⁴⁾ :	2,5 kHz
Czas reakcji ⁵⁾ :	200 µs
Switching output:	NPN: HIGH = approx. VS / LOW ≤ 2 V PNP: HIGH = VS- ≤ 3 V / LOW = approx. 0 V
Tryb przełączania:	PNP/NPN
Wyjście analogowe QA:	0 mA ... 13 mA
Output current I _{max} :	100 mA
Electrical connection:	Connector M12, 5-pin
Klasa ochronności ⁶⁾ :	II
Układ zabezpieczenia:	Wyjście Q zabezpieczone przed zwarciami Tłumienie interferencji 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_S tolerances 3) Bez obciążenia 4) With light/dark ratio 1:1 5)
Signal transit time with resistive load 6) Reference voltage DC 50 V

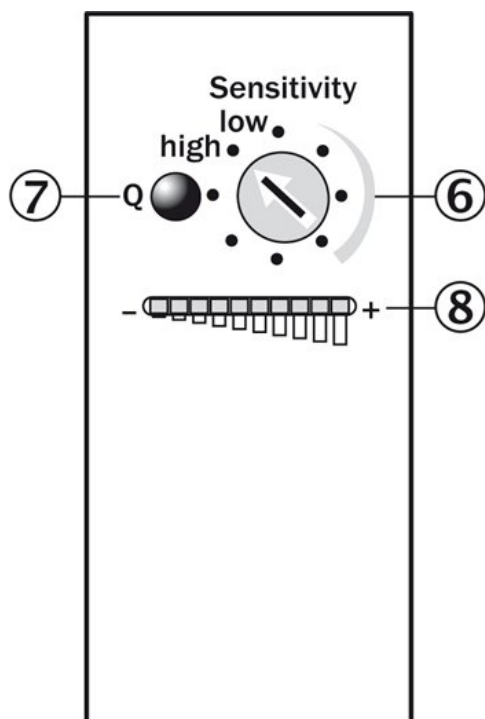
Dane otoczenia

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

Dimensional drawing



Adjustments

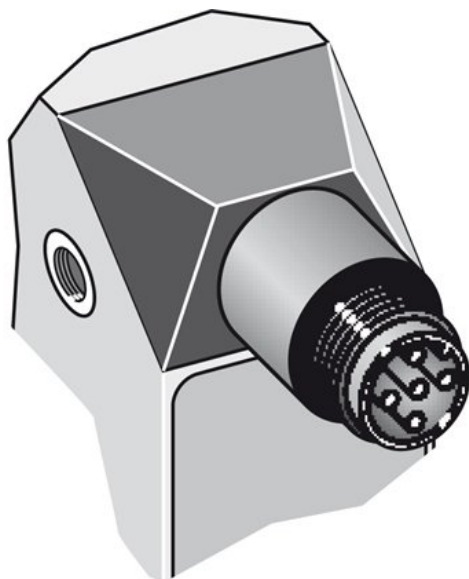


|6| Rotary selection switch

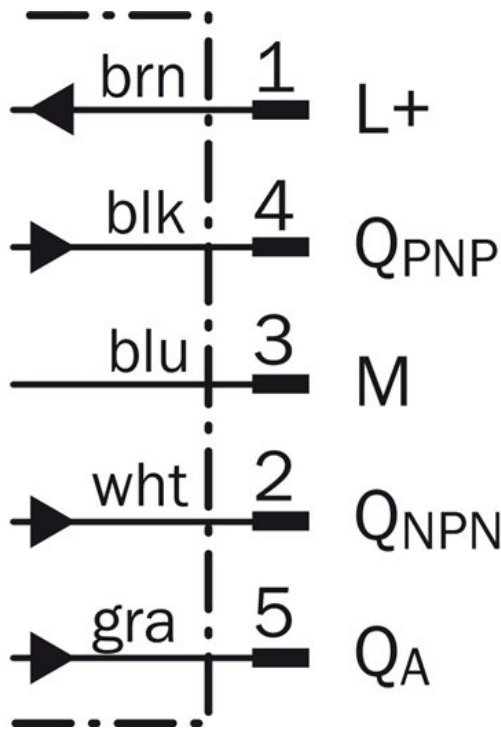
|7| Function signal indicator (yellow), switching output

|8| Bar graph (green), Power on left LED

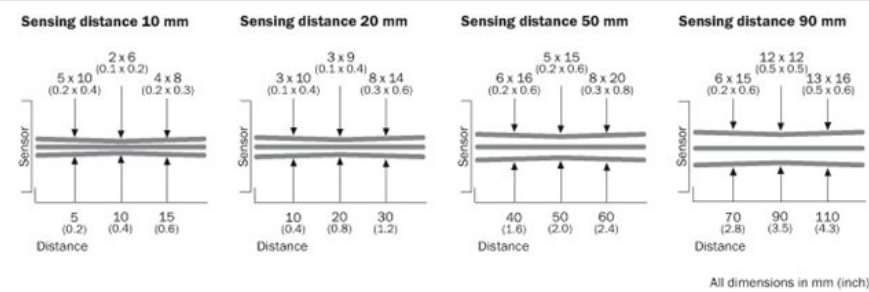
Connection type



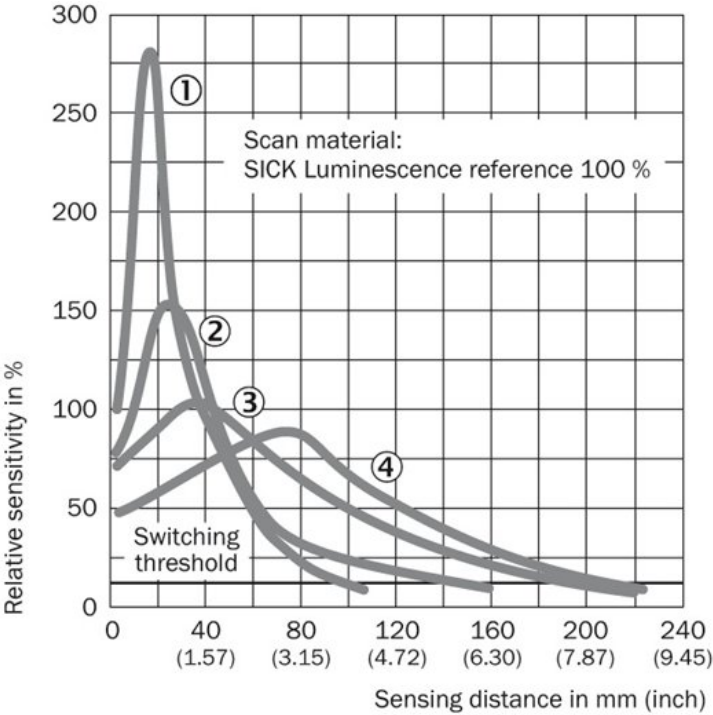
Connection diagram



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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