



Czujniki luminescencji LUT9

LUT9U-12306



Nazwa modelu > **LUT9U-12306**

Numer części > **1047055**



At a glance

- Simple teach-in
- Operating range up to 250 mm
- Version with IO-Link for remote monitoring
- Bar graph display provides information about the luminescence intensity
- High speed (6.5 kHz), standard (2.5 kHz), high resolution (500 Hz) models
- Additional optical filters suppress background luminescence
- Fiber-optic cable connection (with 20 mm lens)
- Switching and analog output

Your benefits

- Simple sensitivity adjustment via teach-in for optimum adaptation to the application
- Long sensing distance tolerance leads to less mechanical height adjustments of the sensor on the machine
- Using IO-Link, the sensor can be configured and monitored by the central control system, enabling simple, cost-effective diagnostics and data collection
- 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 and the second light exit provide flexibility
- High detection reliability ensures the process and reduces downtime
- Select speed or high resolution, making it ideal for any application.



Cechy

Wymiary (dł. x szer. x wys.):	80 mm x 30,4 mm x 53 mm
Sensing distance ¹⁾ :	50 mm
Zasięg roboczy:	20 mm 70 mm
Nadajnik światła ²⁾ , ³⁾ :	UV-LED
Light emission:	Long and short side, exchangeable
Średnica plamki świetlnej:	5 mm x 15 mm
Kierunek plamki świetlnej:	Vertical
Receiving filters:	KV 418 (standard)
Receiving range:	450 nm ... 750 nm
Nastawa:	Static 2-point teach-in with manual fine adjustment
Tryb przełączania ⁴⁾ :	Przełączanie na jasnym

1) Od przedniej powierzchni soczewki 2) Average service life of 100,000 h at $T_A = +25\text{ °C}$ 3) Długość fali: 375 nm 4) L/D switching via teach-in or IO-Link

Mechanika/elektronika

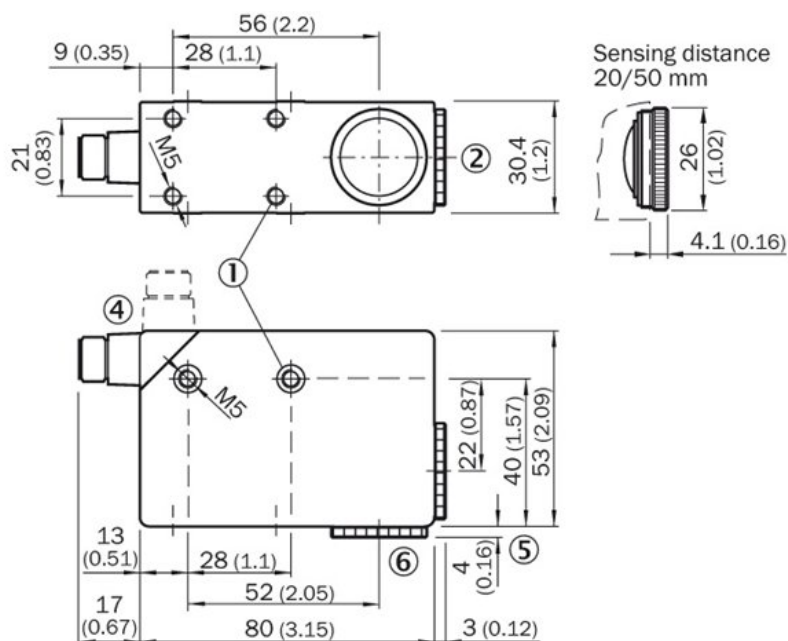
Napięcie zasilania V_S ¹⁾ :	DC 10 V ... 30 V
Tętnienia resztkowe ²⁾ :	< 5 Vss
Pobór prądu ³⁾ :	< 100 mA
Switching frequency ⁴⁾ :	500 Hz 2,5 kHz 6,5 kHz, Adjustable
Czas reakcji ⁵⁾ :	1 ms 200 µs 75 µs
Switching output:	NPN: HIGH = approx. V_S / LOW ≤ 2 V PNP: HIGH = V_S - ≤ 2 V / LOW approx. 0 V
Tryb przełączania:	PNP/NPN
Wyjście analogowe QA:	0 mA ... 13 mA
Output current I _{max} :	100 mA
Opóźnienie czasowe:	0 ms / 10 ms / 20 ms, Adjustable
Electrical connection:	Wtyk M12, 5-pin (standard)
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, no time delay 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

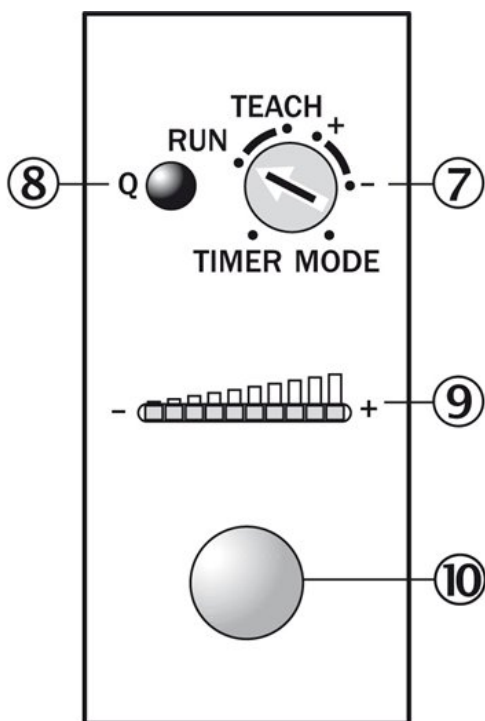
Dimensional drawing



- [1] M5 threaded mounting hole, 5.5 mm deep
- [2] Lens (light transmission), can be replaced by blind screw
- [4] Connector M12 (rotatable up to 90°)
- [5] See dimensional drawing for lens
- [6] Blind screw can be replaced by lens

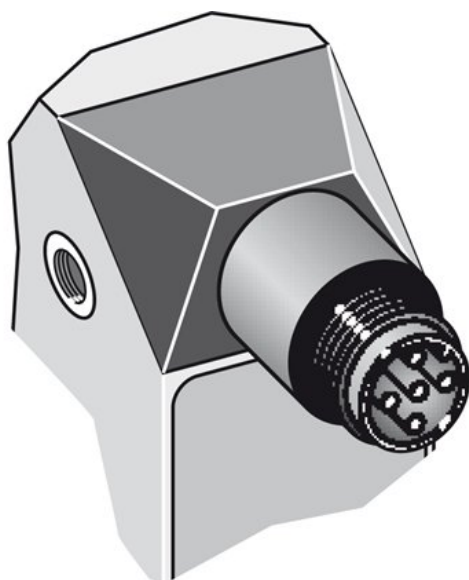
All dimensions in mm (inch)

Adjustments

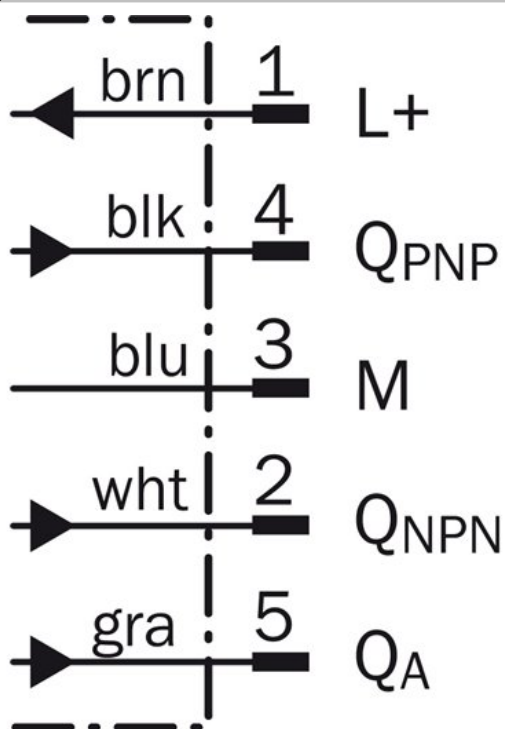


- [7] Rotary selection switch
- [8] Function signal indicator (yellow), switching output
- [9] Bar graph (green), Power on left LED
- [10] Teach-in button

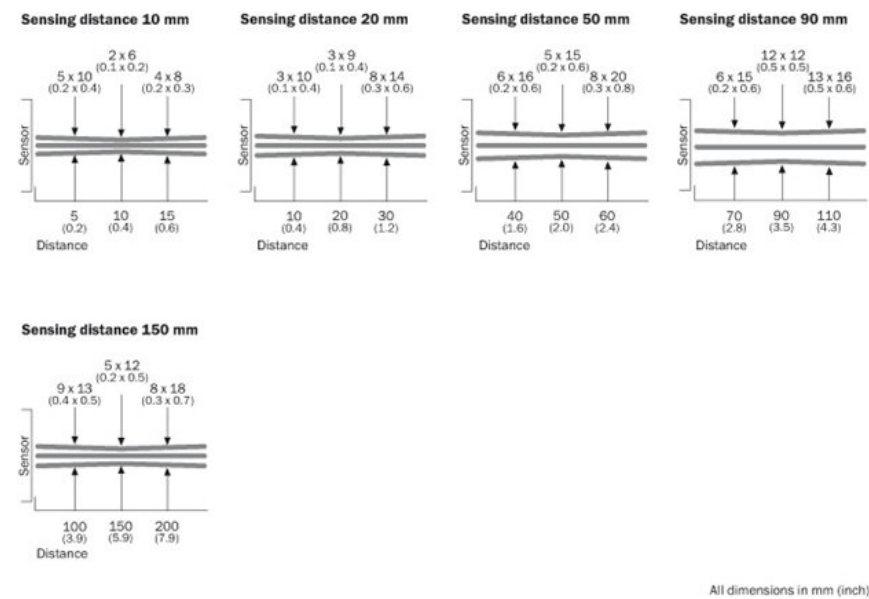
Connection type



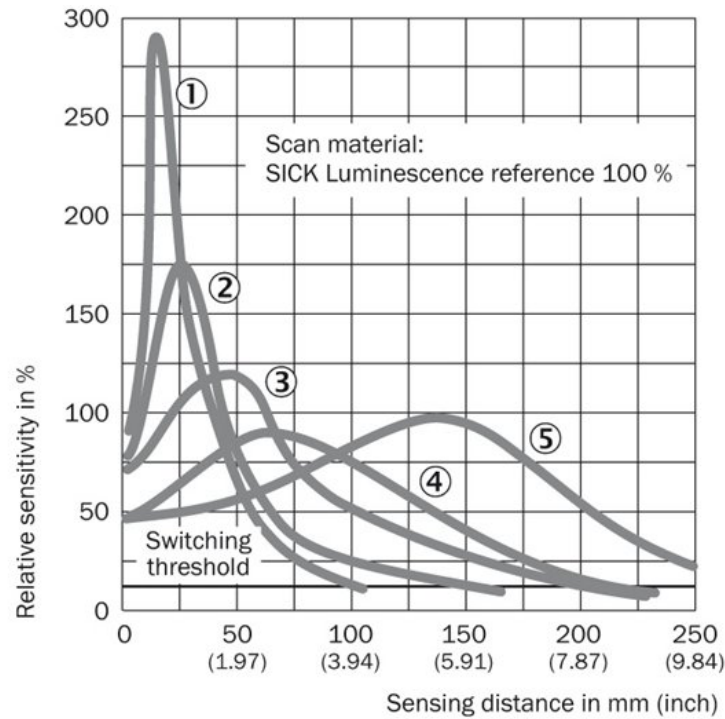
Connection diagram



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
- 5| Sensing distance 150 mm

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