KATALOG ONLINE

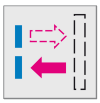
Czujniki luminescencji
LUT3

LUT3-620

SICK
Sensor Intelligence.

Czujniki luminescencji
LUT3

Nazwa modelu > LUT3-620
Numer części > 1015397



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:	20 mm [1]
Nadajnik światła:	UV-LED [2]
Light emission:	long side
Receiving filters:	KV 418 (Standard)
Operating range:	10 mm ... 35 mm
Receiving range:	450 nm ... 750 nm
Nastawa:	Manual (rotary switch)
Średnica plamki świetlnej:	3 mm x 9 mm
Kierunek plamki świetlnej:	longitudinal

[1] Od przedniej powierzchni soczewki; [2] Average service life 100,000 h at T_a = +25 °C; [3] Dlugosc 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 = apporox. 0 V
Tryb przełączania:	PNP/NPN
Sposób przyłączania:	Wtyk M12, 4-pinowe

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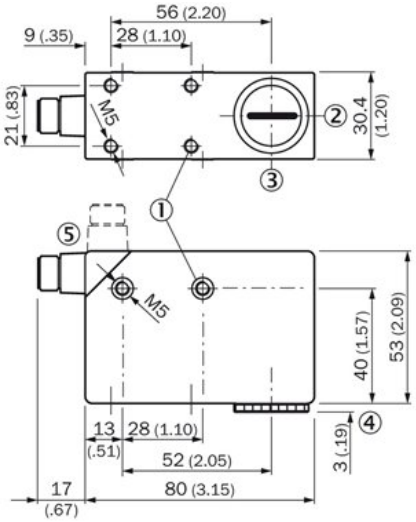
VDE protection class:	II [6]
Układ zabezpieczenia:	A = VS connections reverse-polarity protected Wyjście Q zabezpieczone przed zwarciami Tłumienie interferencji
Rodzaj zabezpieczenia:	IP 67
Ciężar:	ca. 400 g
Housing material:	Cynkowa, odlewana
Tryb przełączania:	Przełączanie na jasnym
Output current Imax.:	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 obciazenia; [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 plamki świetlnej
|3| Center of optical axis
|4| See dimensional drawing for lens
|5| Connector M12 (rotatable through 90°)

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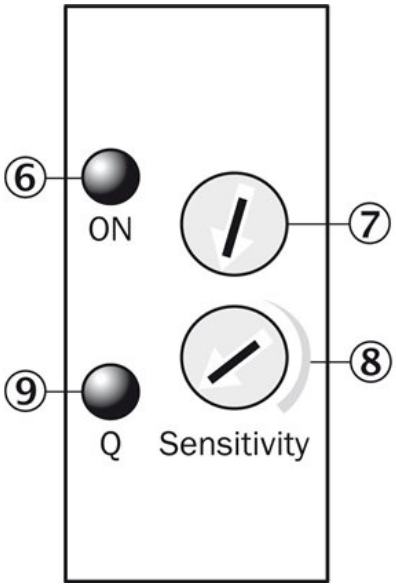
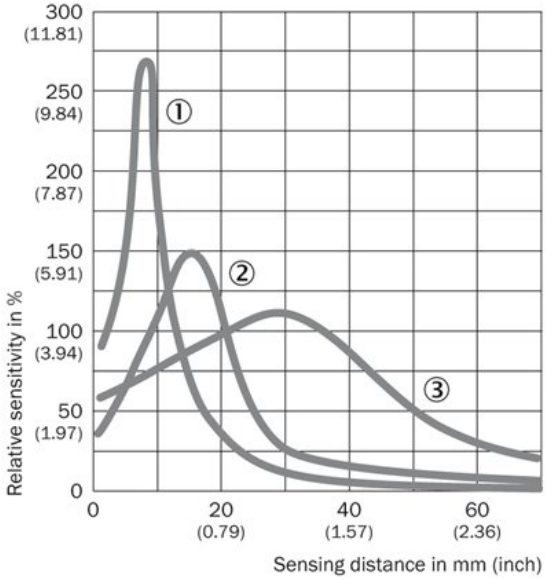
Adjustments



|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

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Light spot size

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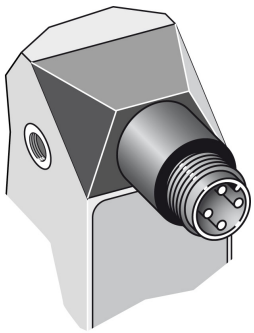
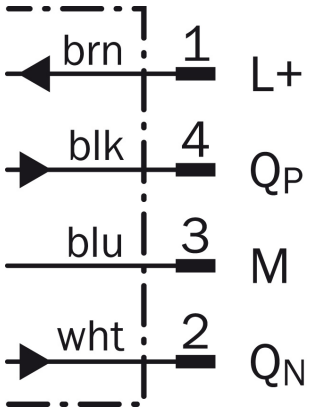
Typ połączenia



Schemat połączenia



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