



Luminescence sensors LUT3, LUT3-6

LUT3-610



Model Name > LUT3-610
Part No. > 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

Dimensions (L x W x H):	80 mm x 30.4 mm x 53 mm
Sensing distance ¹⁾ :	10 mm
Operating range:	0 mm 15 mm
Light source ^{2), 3)} :	UV-LED
Light emission:	Long side
Light spot size:	2 mm x 6 mm
Light spot direction:	Vertical
Receiving filters:	KV 418 (standard)
Receiving range:	450 nm ... 750 nm
Adjustment:	Manual (potentiometer)
Output function:	Light switching

¹⁾ From front edge of lens ²⁾ Average service life of 100,000 h at $T_A = +25^\circ\text{C}$ ³⁾ Wave length: 375 nm

Mechanics/electronics

Supply voltage V_s ¹⁾ :	DC 12 V ... 30 V
Ripple ²⁾ :	< 2 Vpp
Power consumption ³⁾ :	< 60 mA
Switching frequency ⁴⁾ :	1.5 kHz
Response time ⁵⁾ :	350 μs
Output type:	PNP: HIGH = $V_s - \leq 3\text{ V}$ / LOW = approx. 0 V NPN: HIGH = approx. V_s / LOW $\leq 2\text{ V}$
Switching mode:	PNP/NPN
Output current $I_{\text{max.}}$:	100 mA

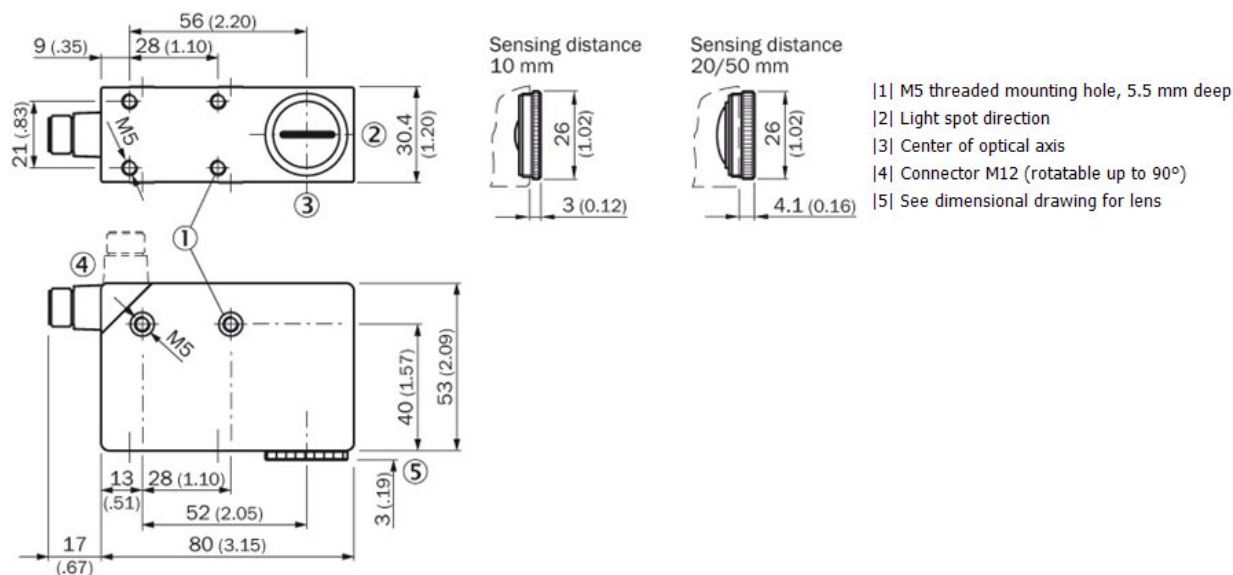
Connection type:	Connector M12, 4-pin
Protection class ⁶⁾ :	II
Circuit protection:	Output Q short-circuit protected Interference suppression VS connections reverse-polarity protected
Enclosure rating:	IP 67
Weight:	Ca. 400 g
Housing material:	Zinc diecast

¹⁾ Limit values: operation in short-circuit protected network max. 8 A
 ²⁾ May not exceed or fall short of V_S tolerances
 ³⁾ Without load
 ⁴⁾ With light/dark ratio 1:1
 ⁵⁾ Signal transit time with resistive load
 ⁶⁾ Reference voltage DC 50 V

Ambient data

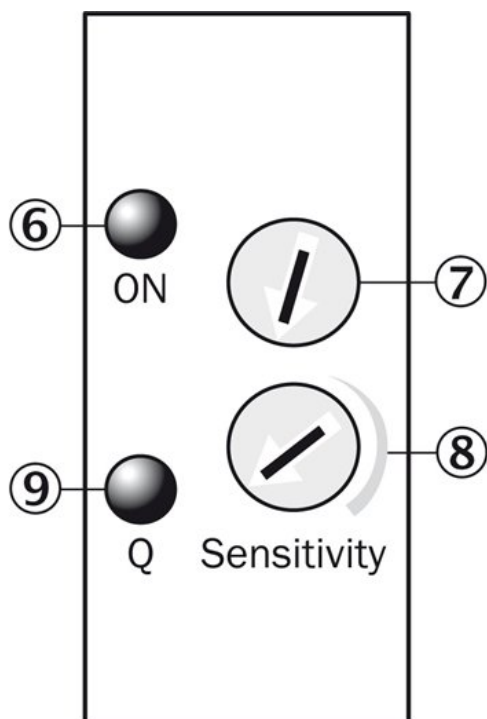
Ambient temperature:	Operation: -10 ... 55 °C Storage: -25 ... 75 °C
Shock load:	According to IEC 60068

Dimensional drawing



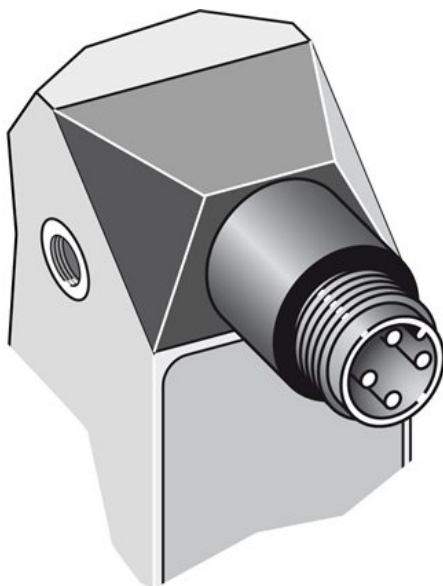
All dimensions in mm (inch)

Adjustments

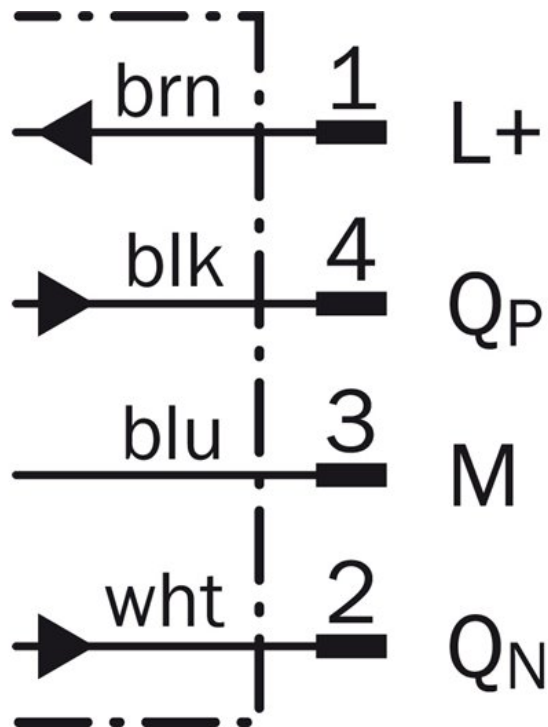


- |6| Function signal indicator (green)
- |7| not connected
- |8| Sensitivity adjustment
- |9| Function signal indicator (yellow), switching output

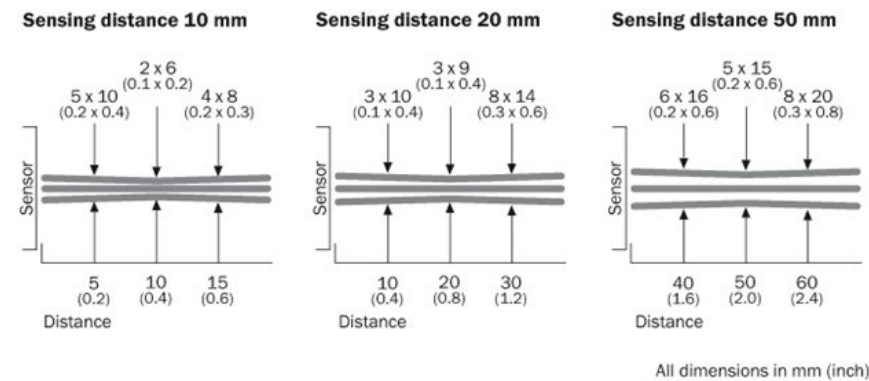
Connection type



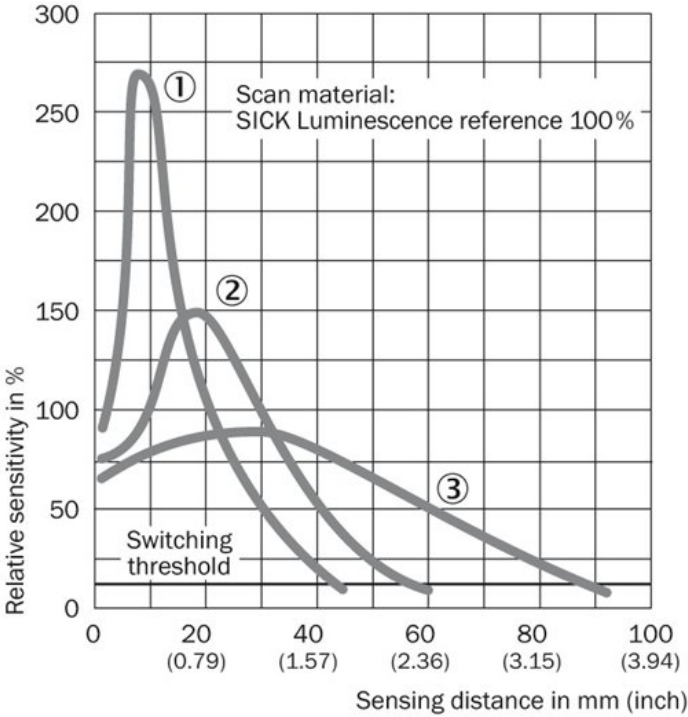
Connection diagram



Light spot size



Sensing distance



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

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