



Luminescence sensors LUT2, LUT2-2

LUT2-2P1116



Model Name > LUT2-2P1116
Part No. > 1048505



At a glance

- Small plastic housing
- High system sensitivity
- Static teach-in on mark and/or background via control panel or control cable
- Fast switching speed 500 Hz and 2 kHz

Your benefits

- Compact size enables easy integration into any machine
- Fast and easy setup saves time and money
- Increased reliability and precision enable fast response time



Features

Dimensions (L x W x H):	22 mm x 12 mm x 40 mm
Sensing distance ¹⁾ :	12.5 mm
Operating range:	8 mm 20 mm
Light source ^{2), 3)} :	UV-LED
Light emission:	Long side
Light spot size ⁴⁾ :	2 mm x 2.5 mm
Light spot direction:	Vertical
Receiving filters:	KV 418 (standard)
Receiving range:	450 nm ... 750 nm
Adjustment:	Static 2-point teach-in
Output function ⁵⁾ :	Light/dark switching

¹⁾ From front edge of lens ²⁾ Average service life of 100,000 h at T_A = +25 °C ³⁾ Wave length: 370 nm ⁴⁾ At sensing distance ⁵⁾ L/D switching via teach-in

Mechanics/electronics

Supply voltage V _s ¹⁾ :	DC 12 V ... 24 V
Ripple ²⁾ :	≤ 5 Vpp
Power consumption ³⁾ :	≤ 30 mA
Switching frequency ⁴⁾ :	500 Hz 2 kHz, Depending on the mark intensity
Response time ⁵⁾ :	1 ms 250 µs
Output type:	PNP: HIGH = V _S - ≤ 2 V / LOW approx. 0 V
Switching mode:	PNP
Output current I _{max} :	≤ 100 mA

Input, teach-in (ET):
 Connection type:
 Protection class ⁶⁾:
 Circuit protection:

PNP-, Run: $U < 2\text{ V}$, Teach: $U = 10\text{ V} \dots < U_V$
 Connector M12, 4-pin
 II
 Output Q short-circuit protected
 Interference suppression
 VS connections reverse-polarity protected

Enclosure rating:
 Weight:
 Housing material:

IP 67
 Ca. 11 g
 ABS

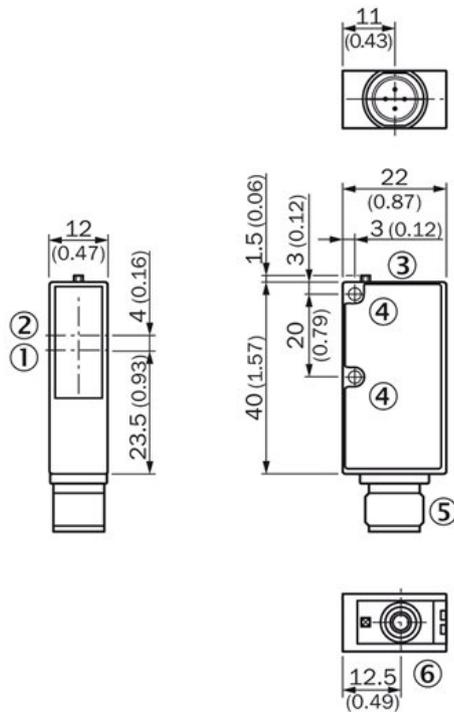
¹⁾ Limit values: DC 12 V (-10 %) ... DC 24 V (+20 %). Operation in short-circuit protected network max. 8 A ²⁾ May not exceed or fall short of V_S tolerances ³⁾ Without load ⁴⁾ With light/dark ratio 1:1 ⁵⁾ Signal transit time with resistive load ⁶⁾ Reference voltage DC 50 V

Ambient data

Ambient temperature:
 Shock load:
 UL File-No.:

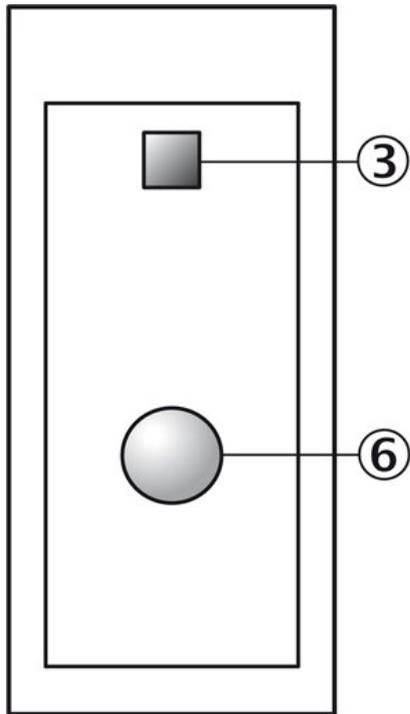
Operation: -10 ... 55 °C, Storage: -25 ... 75 °C
 According to IEC 60068
 UL No. NRKH.E181493 & cUL No. NRKH7.E181493

Dimensional drawing



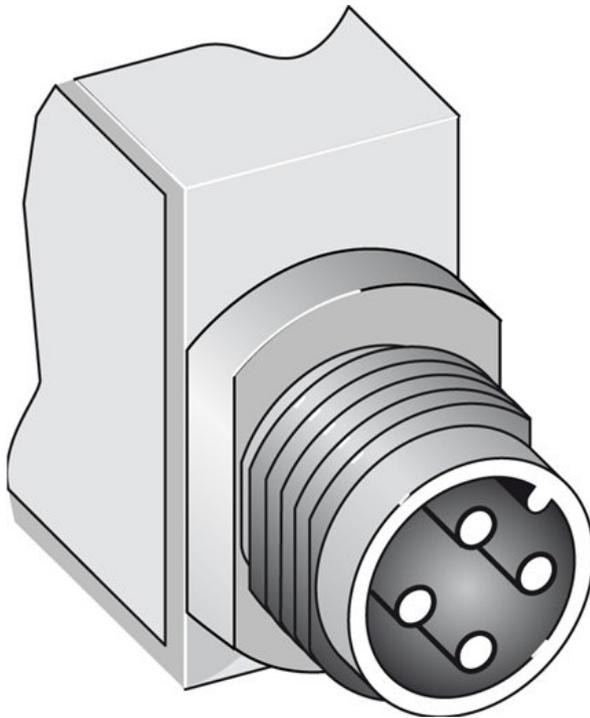
- |1| Center of optical axis, sender
- |2| Center of optical axis, receiver
- |3| LED signal strength indicator
- |4| Mounting hole, $\varnothing 3\text{ mm}$
- |5| Connector M12
- |6| Teach-in button

Adjustments

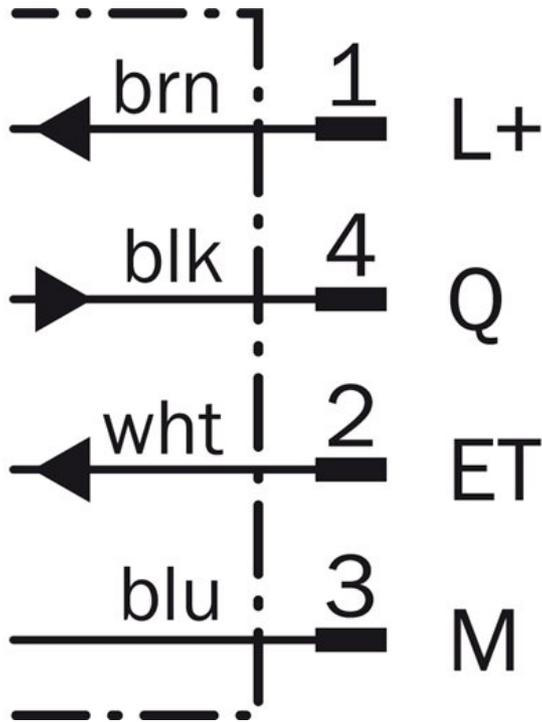


- |3| LED signal strength indicator
- |6| Teach-in button

Connection type

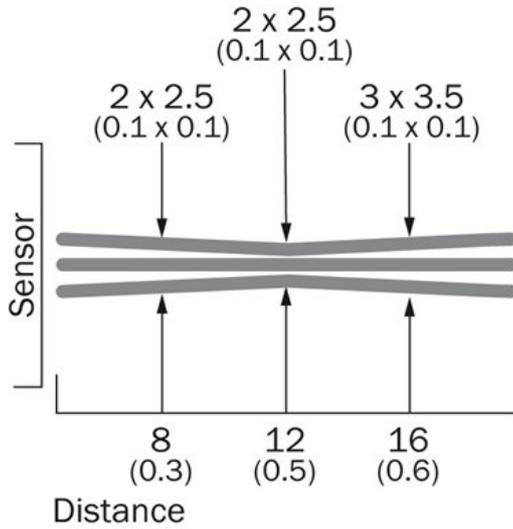


Connection diagram



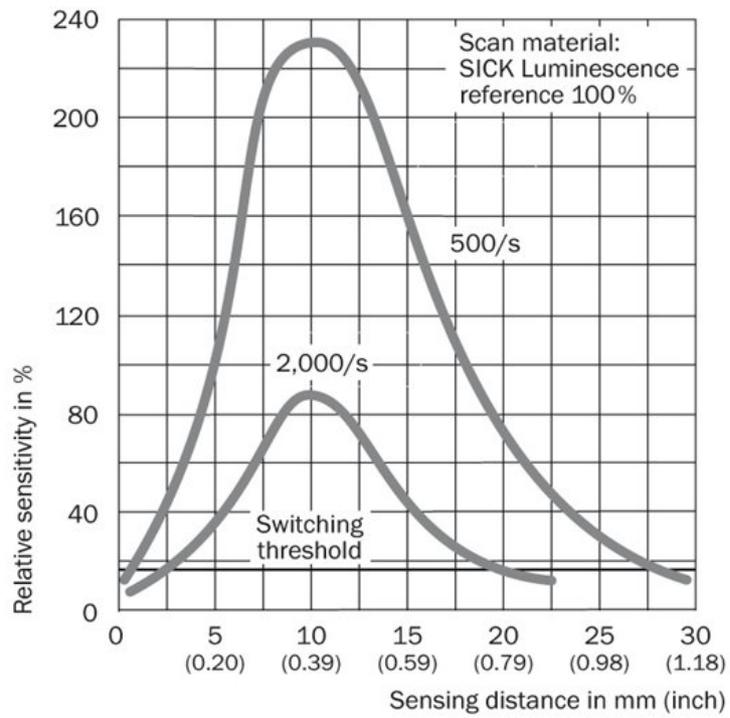
Light spot size

Sensing distance 12 mm



All dimensions in mm (inch)

Sensing distance



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