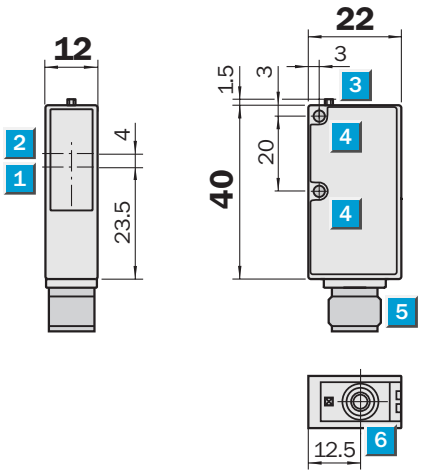
Scanning distance
12.5 mm

Luminescence scanner

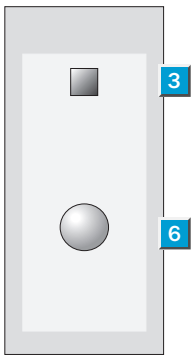
- Switching threshold adjustment for low fluorescence
- Static teach-in to mark and/or background via control cable or control panel on unit
- Switching frequency 500/s and 2000/s
- M12 equipment plug

Dimension illustration



Setting options

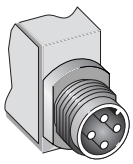
LUT2-P1116
LUT2-N1116



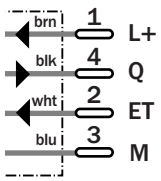
1 Axis of the sender optics
2 Axis of the receiver optics
3 LED signal strength indicator
4 Mounting hole; ∅ 3.2 mm
5 Plug M12, 4-pin
6 Teach-in button

Connection type

LUT2-P1116
LUT2-N1116



4-pin, M12



Accessories

Connectors
Mounting systems

Technical data	LUT2	P1116	N1116
Scanning distance	12.5 mm	■	■
from front panel			
Wavelength	370 nm	■	■
Light spot dimensions	2 x 2.5 mm	■	■
Light source[1], light type	UV light source	■	■
Supply voltage V_S	24 VDC ± 20%	■	■
Ripple[2]	< 5 V_{PP}	■	■
Current consumption[3]	< 30 mA	■	■
Switching outputs	NPC: HIGH = V_S / LOW = < 2 V		■
	PNP: HIGH = V_S - < 2 V/ LOW = ca. 0 V	■	
Output current I_A max.	100 mA	■	■
Response time[4]	1 ms/250 µs	■	■
Switching frequency[5]	500/s and 2000/s	■	■
Teach-in input ET	PNP: Teach > 10 V...≤ V_S	■	
	NPN: Teach 0 V		■
Connection type	Plug 4-pin, M12	■	■
VDE protection class[6]	⧈	■	■
Enclosure rating	IP 67	■	■
Circuit protection[7]	A, B, C	■	■
Ambient temperature	Operation –10 ... +55 °C	■	■
	Storage –25 ... +75 °C	■	■
Shock load	To IEC 68	■	■
Weight	Approx. 80 g	■	■
Housing material	ABS	■	■

1) Average service life 100,000 h at T_A = +25 °C
2) May not exceeded or fall short of V_S tolerances
3) Without load
4) Signal transit time with resistive load
5) With light/dark ratio 1:1
6) Reference voltage 50 V DC
7) A = V_S connections reverse-polarity protected
B = Outputs short-circuit protected
C = Interference pulse suppression

Sensitivity adjustment

Standard applications are available with default setting of the LUT2, no teach-in procedure is necessary.
Sensor with fix switching threshold and switching frequency 2000/s.

Order information

Type	Order no.
LUT2-P1116	1 023 500
LUT2-N1116	1 023 501

For low fluorescence of the mark and in the case of background fluorescence the sensitivity is set automatically with teach-in via control panel or via control wire.

teach-in via control panel:

1. Place mark in light spot.
2. Press the teach-in button on the sensor for longer than 1 s.
   First teach-in procedure is triggered.
3. Place the light spot on the background.
   Second teach-in procedure is triggered.

teach-in via control wire:

1. Place mark in light spot.
2. Trigger the first teach-in procedure via the control wire.
3. Place the light spot on the background, and then trigger the second teach-in procedure via the control wire.

Confirmation:

LED and status indicator do not blink = teach-in procedure completed with standard sensitivity (2000/s).
LED and status indicator blink 2 x shortly = teach-in procedure completed with high sensitivity (500/s).
LED and status indicator blink rapidly = teach-in procedure not completed.

Preselection: high sensitivity, switching frequency 500/s via control panel.

Teach-in via control panel:

1. Place mark in light spot.
2. Press the teach-in button on the sensor for longer than 1 s.
   First teach-in procedure is triggered.
3. Place the light spot on the background, and then trigger the second teach-in procedure via the control wire.
4. Press the teach-in button in the next 2 seconds.

Confirmation:

LED and status indicator blink 2 x shortly = teach-in procedure completed with high sensitivity (500/s).
LED and status indicator blink rapidly = teach-in procedure not completed.