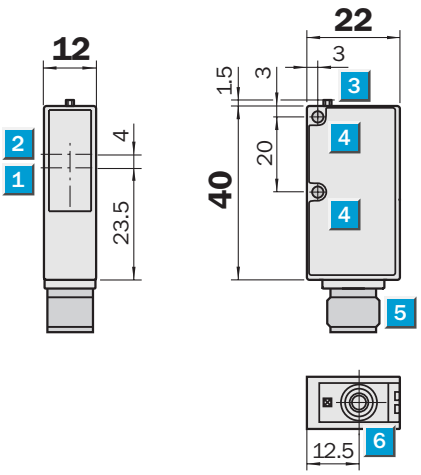
Scanning distance
12.5 mm

Luminescence scanner

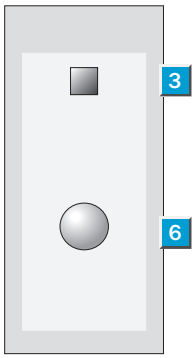
- Switching threshold adjustment for low fluorescence
- Static teach-in to mark and/or background via control cable or control panel on unit
- Switching frequency 500/s and 2000/s
- M12 equipment plug

Dimension illustration



Setting options

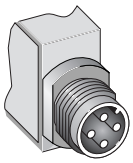
LUT2-P1116
LUT2-N1116



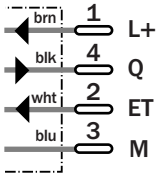
1 Axis of the sender optics
2 Axis of the receiver optics
3 LED signal strength indicator
4 Mounting hole; ∅ 3.2 mm
5 Plug M12, 4-pin
6 Teach-in button

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	NPN: 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	1023500
LUT2-N1116	1023501

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:

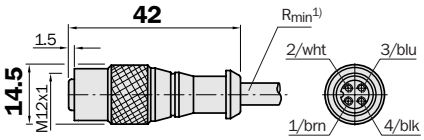
LED and status indicator blink 2 x shortly = teach-in procedure completed with high sensitivity (500/s).
LED and status indicator blink rapidly = teach-in procedure not completed.

Dimensional drawings and order informations

SENSICK screw-in system M12, 4- or 5-pin, enclosure rating IP 67

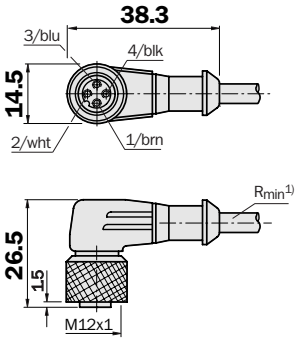
Female connector M12, 4- or 5-pin, straight
Cable diameter 5/6 mm, 4/5 x 0.25 mm², sheath PVC

Type	Order no.	Contacts	Cable length
DOL-1204-G02M	6009382	4	2 m
DOL-1204-G05M	6009866	4	5 m
DOL-1204-G10M	6010543	4	10 m
DOL-1204-G15M	6010753	4	15 m
DOL-1205-G02M	6008899	5	2 m
DOL-1205-G05M	6009868	5	5 m
DOL-1205-G10M	6010544	5	10 m



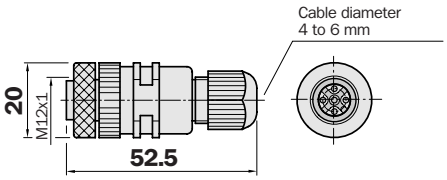
Female connector M12, 4- or 5-pin, right angle
Cable diameter 5/6 mm, 4/5 x 0.25 mm², sheath PVC

Type	Order no.	Contacts	Cable length
DOL-1204-W02M	6009383	4	2 m
DOL-1204-W05M	6009867	4	5 m
DOL-1204-W10M	6010541	4	10 m
DOL-1205-W02M	6008900	5	2 m
DOL-1205-W05M	6009869	5	5 m
DOL-1205-W10M	6010542	5	10 m



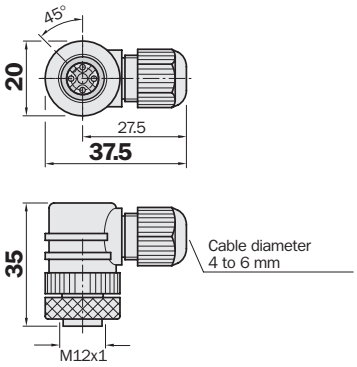
Female connector M12, 4- or 5-pin, straight

Type	Order no.	Contacts
DOS-1204-G	6007302	4
DOS-1205-G	6009719	5



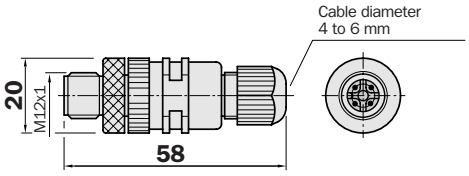
Female connector M12, 4- or 5-pin, right angle

Type	Order no.	Contacts
DOS-1204-W	6007303	4
DOS-1205-W	6009720	5



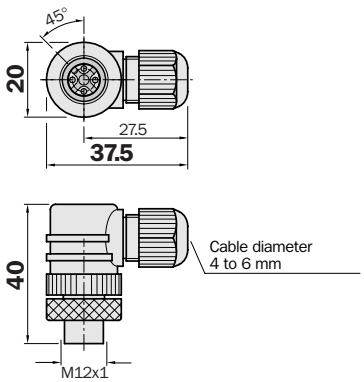
Male connector M12, 4- or 5-pin, straight

Type	Order no.	Contacts
STE-1204-G	6009932	4
STE-1205-G	6022083	5



Male connector M12, 4- or 5-pin, right angle

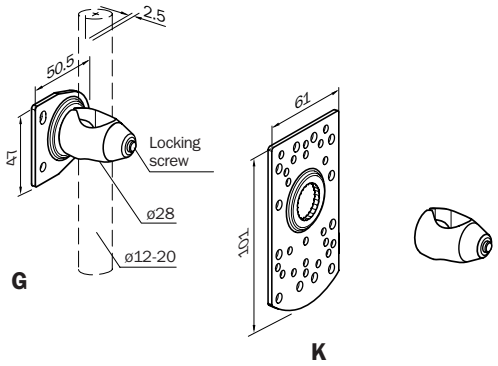
Type	Order no.	Contacts
STE-1204-W	6022084	4
STE-1205-W	6022082	5



Dimensional drawings and order informations

Mounting systems

Universal bar clamps for sensors and reflectors



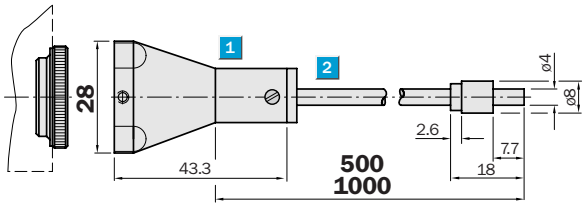
Mounting plates	Type	Order no. [1]	for device/reflector type
G	BEF-KHS-G01	2022464	W24, W24 Exi, WTA24, KT5, KT10, CS1, CS3, LUT3
K	BEF-KHS-K01	2022718	W11, W12-2, W12L-2, W14, W18-2, W23, W24-2, W27-2, W30, W32, W34, W36, KT2, KT5, KT10, CS, LUT3, DS60, PL20 A, PL30 A, PL40 A, PL50 A, PL80 A, P250, C110
	BEF-KHS-KH1	2022726	Clamp mounting without mounting plate

[1] The order no. includes bar support and mounting material.

Fibre-optic cable

Fibre-optic cable LLUV8 for Luminescense scanner LUT3-820 und LUT3-920

Type	Order no.	Length X
LLUV 8-500	2017098	500 mm
LLUV 8-1000	2017099	1000 mm



1 Adapter
2 Fibre-optic cable LLUV8, smallest bending radius R_{min} = 40 mm

Special accessories

Type	Order no.
Crayon	1004460
Writing chalk	1002959
Luminescence scale	8008840

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