



Czujniki ultradźwiękowe UC12

UC12-11231



Nazwa modelu > **UC12-11231**

Numer części > **6029831**

At a glance

- Object detection independent of material color and ambient light - even transparent foils, glass, liquids and bottles are reliably detected
- Fast and easy teach-in with single push-button
- Immune to dirt, dust and fog
- Two ambivalent switching outputs (Q, /Q)
- Excellent background suppression
- Three operation modes: Distance to Object (DtO), Window (Wnd) or Object between sensor and background (OBSB)

Your benefits

- Fast commissioning due to single-button teach-in
- Full mechanical compatibility to photoelectric sensors increase application flexibility without machine modification
- Standard proximity, window and reflection modes provide application flexibility, which increases reliability and productivity
- Integrated temperature compensation ensures high measurement accuracy
- Complementary switching outputs immediately signal broken wiring, reducing faulty production results



Wydajność

Working range, limiting range:	20 mm ... 150 mm, 250 mm
Odtwarzalność: ¹⁾ :	± 0,15 %
Accuracy ²⁾ :	± 1 %
Czas reakcji:	30 ms
Output rate:	8 ms
Switching frequency:	25 Hz
Ultrasonic frequency (typical):	380 kHz
Detection area (typical):	See diagrams
Kompensacja temperatury:	✓
Additional function:	Set switching mode: Distance to object (DtO)/Window (Wnd)/Object between sensor and background (ObSB) Teach-in of switching output Kompensacja temperatury Reset to factory default Lock user interface

^{1) 2)} Referring to current measurement value

Interfejsy

Switching output ¹⁾ : ²⁾ : ³⁾ :	2 x PNP (500 mA)
Histeresa:	2 mm

¹⁾ Wyjście Q zabezpieczone przed zwarciami ²⁾ Complementary switching outputs (Q, /Q) ³⁾ PNP: HIGH = V_S - (< 2 V)/LOW = 0 V

Mechanika/elektronika

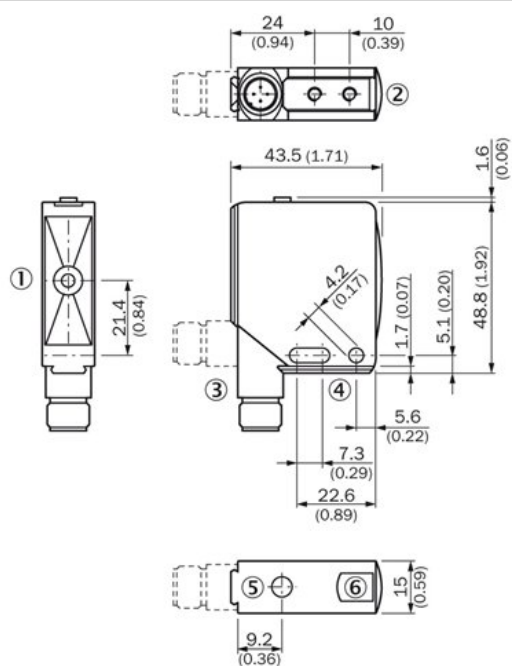
Sending axis:	Prosty
Napięcie zasilania VS ¹⁾ :	DC 10 V ... 30 V
Pobór mocy ²⁾ :	≤ 1,2 W
Initialization time:	< 300 ms
Housing material ³⁾ :	Cynkowa, odlewana
Typ połączenia:	Wtyk M12, 4-pinowe
Indication:	Dual LED
Ciężar:	75 g

¹⁾ Limit values, reverse-polarity protected, operation in short-circuit protected network, max. 8 A ²⁾ Bez obciążenia ³⁾ Ultrasonic transducer: polyurethane foam, glass epoxy resin

Dane otoczenia

Rodzaj zabezpieczenia:	IP 67
Klasa ochronności:	III
Ambient temperature:	Operation: -25 ... 70 °C Storage: -40 ... 85 °C

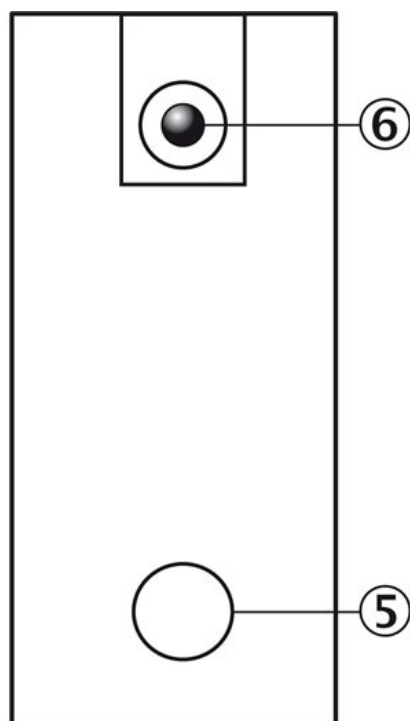
Dimensional drawing



All dimensions in mm (inch)

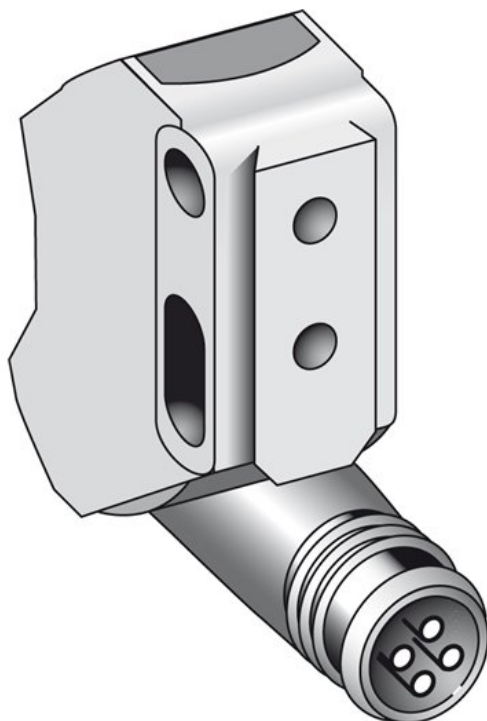
- |1| Transmission and reception axis
- |2| M4 threaded mounting hole, 4 mm deep
- |3| Connection
- |4| Mounting hole
- |5| Elementy sterujące
- |6| Status indicator switching
output (orange) and power on (green)

Adjustments

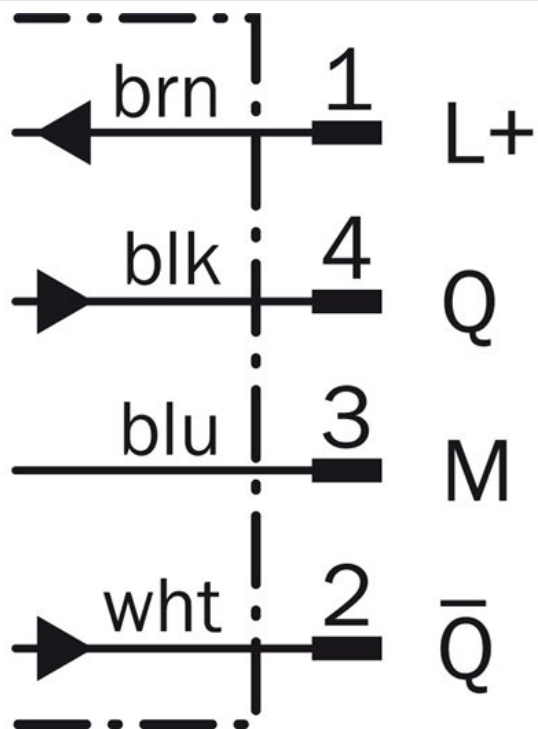


- |5| Elementy sterujące
- |6| Status indicator switching
output (orange) and power on (green)

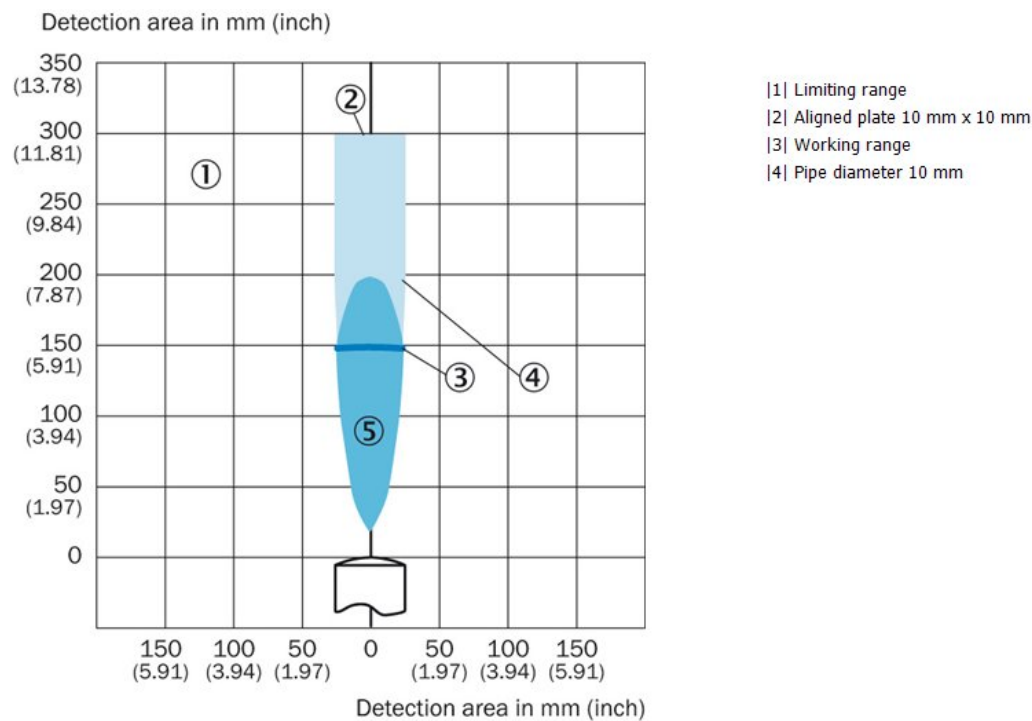
Connection type



Connection diagram



Characteristic curve



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com