



Czujniki ultradźwiękowe UC12

UC12-11235



Nazwa modelu > **UC12-11235**

Numer części > **6029833**



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 NPN (500 mA)
Histeresa:	2 mm

¹⁾ Wyjście Q zabezpieczone przed zwarciami ²⁾ Complementary switching outputs (Q, /Q) ³⁾ NPN: HIGH $\leq 2\text{ V}$ / LOW = V_S

Mechanika/elektronika

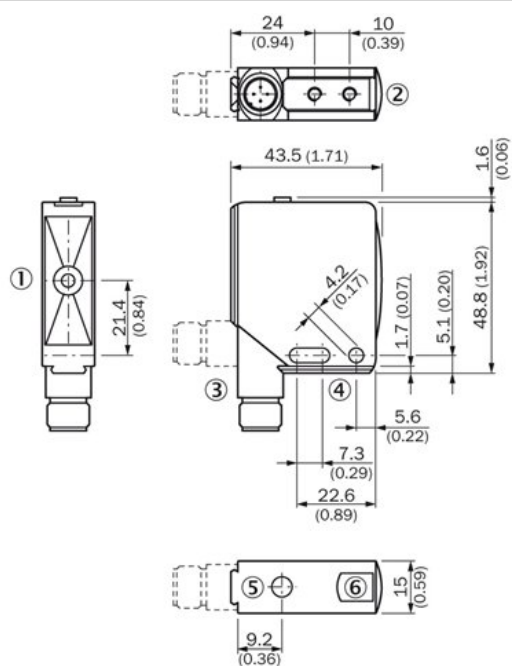
Sending axis:	Prosty
Napięcie zasilania VS ¹⁾ :	DC 10 V ... 30 V
Pobór mocy ²⁾ :	$\leq 1,2\text{ W}$
Initialization time:	< 300 ms
Housing material ³⁾ :	Cynkowa, odlewana
Electrical connection:	Wtyk M12, 4-pinowe
Indication:	Dual LED
Ciężar:	75 g

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

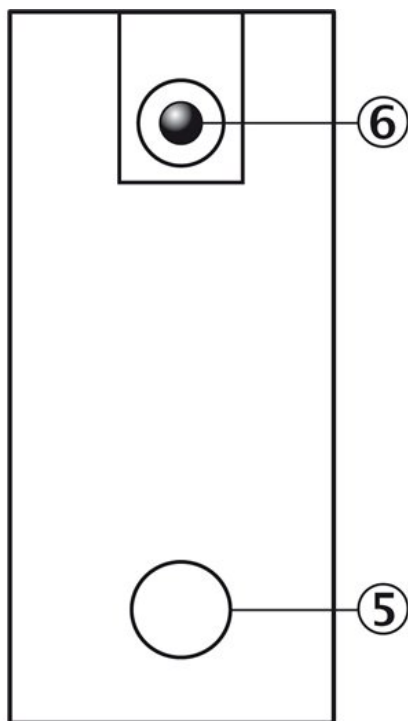
Dimensional drawing



- |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)

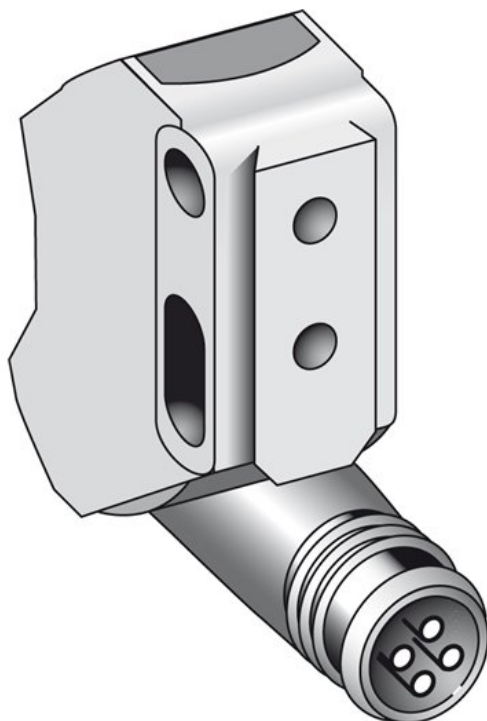
All dimensions in mm (inch)

Adjustments

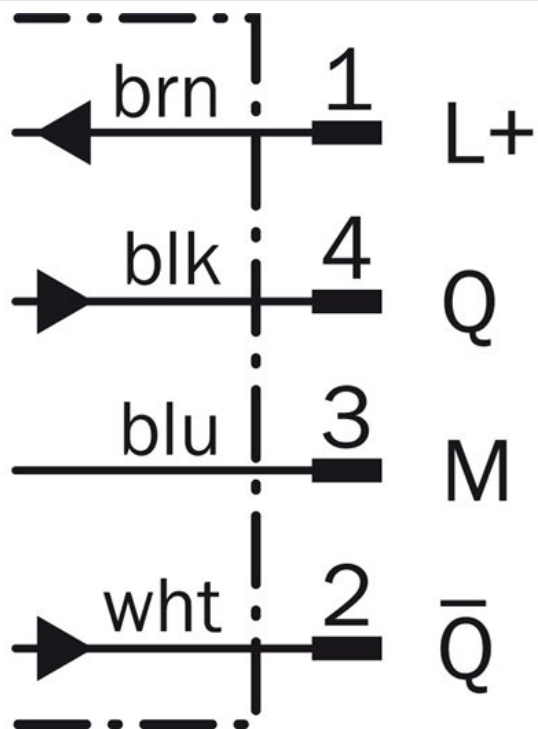


- |5| Elementy sterujące
- |6| Status indicator switching
output (orange) and power on (green)

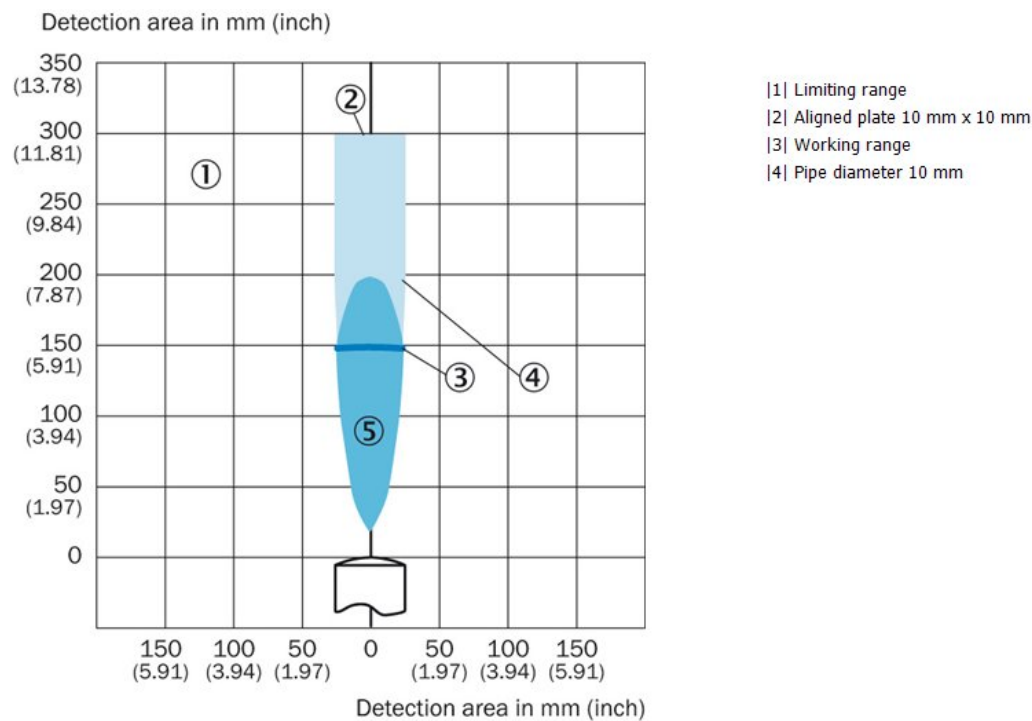
Connection type



Connection diagram



Characteristic curve



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