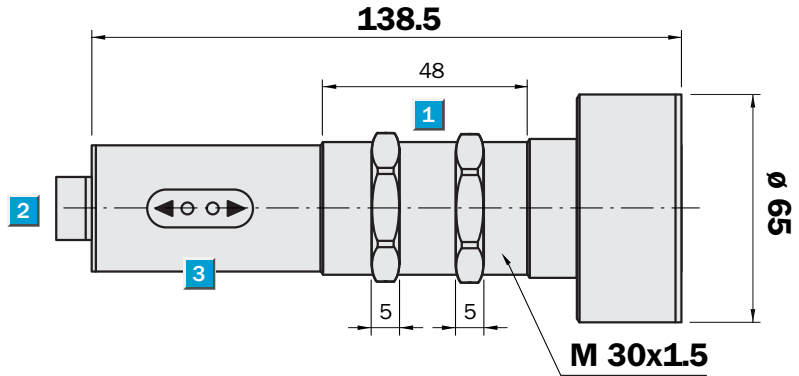


Operating scanning range
800 ... 6000 mm

Ultrasonic sensor

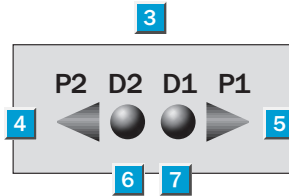
- High measurement accuracy thanks to time-of-flight measurement
- Independent of material shape (including films, glass and bottles)
- Teach-in
- Insensitive to dirt, dust and fog
- Operating scanning range up to 6,000 mm
- Binary outputs or analog output

Dimensional drawing



Adjustments possible

All types



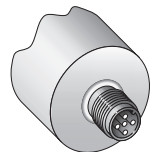
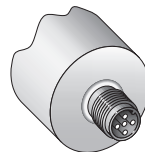
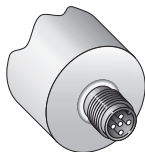
- 1 Fastening nuts, width across 36 mm
- 2 Connection plug M 12
- 3 Control and display panel
- 4 Setting key 2
- 5 Setting key 1
- 6 2
- 7 1

Connection types

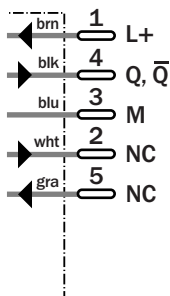
UM 30-15111

UM 30-15112

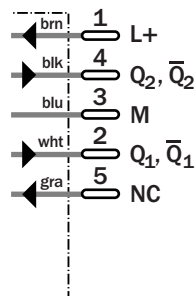
UM 30-15113



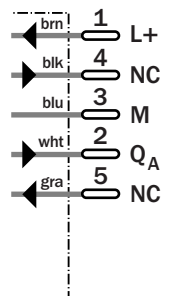
5-pin, M 12



5-pin, M 12



5-pin, M 12



Accessories
Mounting systems

Technical data	UM 30-	15111	15112	15113							
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Operating scanning range

(limiting scanning range)	800 ... 6000 mm (8000)			
Ultrasonic frequency	80 kHz			
Resolution	1 mm			
Reproducibility	± 0.15 % of final value			
Accuracy	≤ 2 % of final value			
Supply voltage V_S	12 ... 30 V DC ¹⁾			
Ripple	± 10 %			
Current consumption ²⁾	≤ 70 mA			
Switching outputs, reversible³⁾	Q: PNP, $V_S - 2 V$, $I_{max} = 500 mA$			
	Q_1, Q_2 : 2 x PNP, $V_S - 2 V$, $I_{max} = 500 mA$			
Analog output, reversible ^{3) 4)}	Q_A : 4 ... 20 mA/0 ... 10 V			
Response time ⁵⁾	240 ms			
Switching frequency	2/s			
Switching hysteresis	100 mm			
Standby delay	2 s			
Connection type	Plug M 12, 5-pin			
Enclosure rating	IP 65			
Ambient temperature ⁶⁾	Operation -20 °C ... +70 °C			
	Storage -40 °C ... +85 °C			
Weight	360 g			
Housing material	Nickel-plated brass			

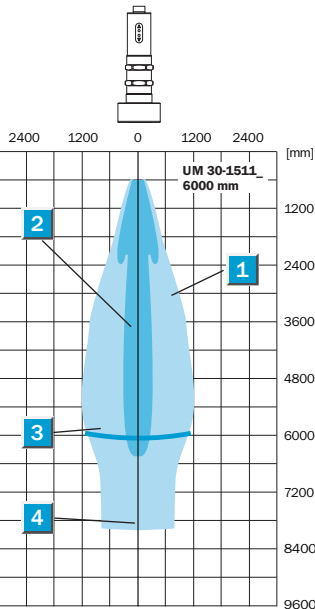
- 1) Limit values
- 2) Without load
- 3) Outputs short-circuit protected

4) Automatic switching between voltage and current outputs dependent on load

Current output 4 ... 20 mA:
 $R_L \leq 500 \Omega$, $V_S \geq 20 V$;
 $R_L \leq 100 \Omega$, $V_S \geq 12 V$
 Voltage output 0 ... 10 V:
 $R_L \geq 100 k\Omega$; $V_S > 15 V$

- 5) Only with UM 30-___3: Recovery time according to EMV EN 50 319
- 6) Temperature compensation at -20 ... +50 °C

Detection ranges



- 1 Aligned plate 500 x 500 mm
- 2 Pipe diameter 27 mm
- 3 Operating scanning range
- 4 Limiting scanning range

Order information

Type	Part no.
UM 30-15111	6 025 659
UM 30-15112	6 025 664
UM 30-15113	6 025 669