

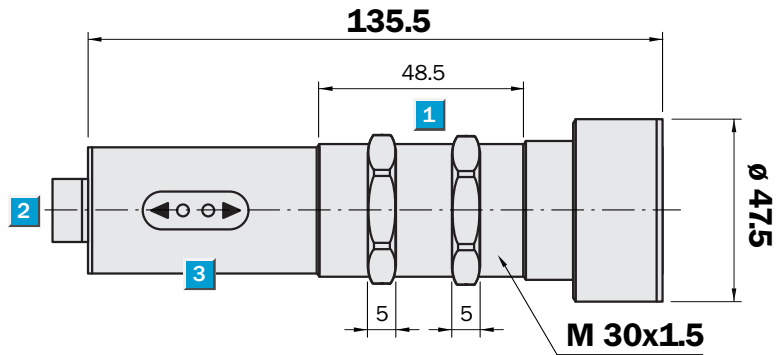


Operating scanning range
350 ... 3400 mm

Ultrasonic sensor

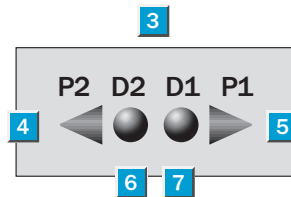
- High measurement accuracy thanks to time-of-flight measurement
- Independent of material shape (including films, glass and bottles)
- Teach-in
- Insensitive to dirt, dust and fog
- Operating scanning range up to 3,400 mm
- Binary outputs or analog output

Dimensional drawing



Adjustments possible

All types



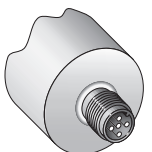
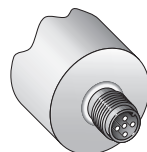
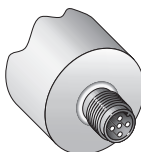
- 1 Fastening nuts, width across 36 mm
- 2 Connection plug M 12
- 3 Control and display panel
- 4 Setting key 2
- 5 Setting key 1
- 6 2
- 7 1

Connection types

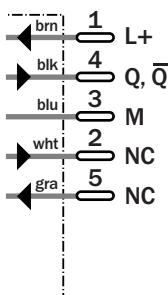
UM 30-14111

UM 30-14112

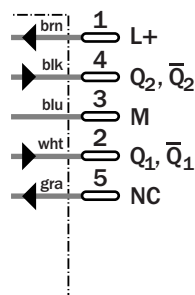
UM 30-14113



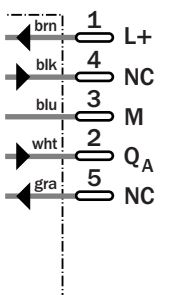
5-pin, M 12



5-pin, M 12



5-pin, M 12



Accessories

Mounting systems



Technical data	UM 30-	14111	14112	14113							
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Operating scanning range

(limiting scanning range)	350 ... 3400 mm (5000)				
Ultrasonic frequency	120 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: 1 x 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⁾	180 ms				
Switching frequency	3/s				
Switching hysteresis	50 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	310 g				
Housing material	Nickel-plated brass				

1) Limit values

2) Without load

3) Outputs short-circuit protected

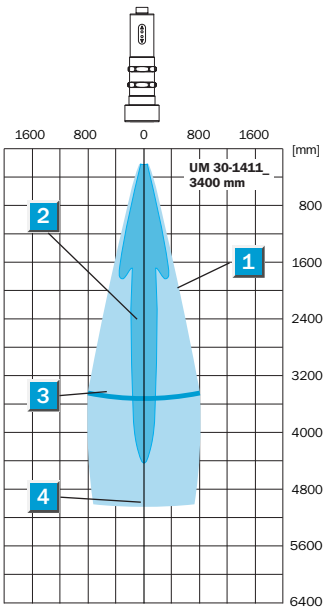
4) Automatic switching between voltage and current outputs dependent on load

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:
 $R_L \geq 100 \text{ k}\Omega$; $V_S > 15$ 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 30-14111	6 025 658
UM 30-14112	6 025 663
UM 30-14113	6 025 668