

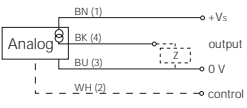
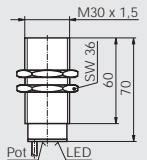
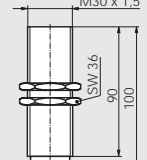




# Ultrasonic analog sensors with potentiometer

Scanning range Sd	100...700 mm	100...700 mm
Special characteristics	• Analog voltage output 0 - 10 V	• Analog current output 4 - 20 mA
The analog output of the sensor is proportional to the distance to the target. With the potentiometer the user can adjust the slope of the output curve.		
Analog current output		UNAM 30I9103
Analog voltage output	UNAM 30U9103	
<b>technical data</b>		
scanning range Sd	100 mm...Sde	100 mm...Sde
scanning range far limit Sde (Teach-in)	200...700 mm	200...700 mm
sonic beam angle	10°	10°
sonic frequency	230 kHz	230 kHz
voltage supply range	15 - 30 VDC	15 - 30 VDC
residual ripple	< 10% Vs	< 10% Vs
supply current	< 30 mA	< 55 mA
max. switching current	20 mA	24 mA
output	0 - 10 V	4 - 20 mA
load resistance at Vs > 15 V	-	≤ 400 Ω
load resistance at Vs > 24 V	-	≤ 800 Ω
short circuit protection	yes	yes
reverse polarity protection	yes	yes
response time $t_{on}/t_{off}$	< 80 ms	< 100 ms
repeatability	≤ 0,5 mm	≤ 1 mm
resolution	< 0,3 mm	< 0,5 mm
temperature drift	≤ 2% So	≤ 2% So
temperature range	0...+60 °C	0...+60 °C
housing material	brass nickel plated	brass nickel plated
protection class	IP 67	IP 67
output indicator	green LED	green LED
adjustment aid	yes	yes
connector options	ES 14, ES 33A, ES 34A	ES 14, ES 33A, ES 34A
connector type	UNAM 30U9103/S14	UNAM 30I9x03/S14
synchronization	on request	UNAM 30I9703
multiplex version	-	UNAM 30I9803
		

400...2500 mm	400...2500 mm	
• Analog voltage output 0 - 10 V • Long scanning range	• Analog current output 4 - 20 mA • Long scanning range	
		
	UNAM 50I9121/S14	
UNAM 50U9121/S14		
<b>technical data</b>		
400 mm...Sde	400 mm...Sde	
800...2500 mm	800...2500 mm	
8°	8°	
120 kHz	120 kHz	
15 - 30 VDC	15 - 30 VDC	
< 10% Vs	< 10% Vs	
< 30 mA	< 55 mA	
20 mA	24 mA	
0 - 10 V	4 - 20 mA	
-	≤ 400 Ω	
-	≤ 800 Ω	
yes	yes	
yes	yes	
< 160 ms	< 250 ms	
≤ 1 mm	≤ 2 mm	
< 0,3 mm	< 1 mm	
≤ 2% So	≤ 2% So	
0...+60 °C	0...+60 °C	
brass nickel plated	brass nickel plated	
IP 67	IP 67	
green LED	green LED	
yes	yes	
ES 14, ES 33A, ES 34A on request on request	ES 14, ES 33A, ES 34A UNAM 50I9x21 on request	
	UNAM 50I9821/S14	
