

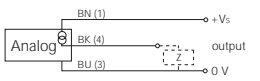
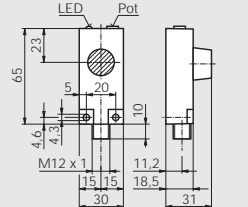
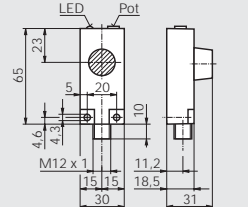



# Ultrasonic analog sensor with potentiometer

Scanning range Sd	30...150 mm	60...300 mm
Special characteristics	<ul style="list-style-type: none"> <li>Analog voltage output 0 - 10 V</li> <li>Small blind region</li> </ul>	<ul style="list-style-type: none"> <li>Analog voltage output 0 - 10 V</li> </ul>
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 voltage output	UNDK 30U9113/S14	UNDK 30U9112/S14
Analog current output		
<b>technical data</b>		
scanning range far limit Sde	70...150 mm	160...300 mm
sonic beam angle	8°	8°
sonic frequency	300 kHz	400 kHz
voltage supply range	15 - 30 VDC	15 - 30 VDC
residual ripple	< 10% Vs	< 10% Vs
supply current	< 30 mA	< 30 mA
max. output current	20 mA	20 mA
output	0 - 10 V	0 - 10 V
load resistance by Vs > 15 V	-	-
load resistance by Vs > 24 V	-	-
short circuit protection	yes	yes
reverse polarity protection	yes	yes
response time $t_{on}/t_{off}$	< 50 ms	< 60 ms
repeatability	≤ 0,5 mm	≤ 0,5 mm
resolution	< 0,3 mm	< 0,3 mm
temperature drift	≤ 2% So	≤ 2% So
temperature range	0...+60 °C	0...+60 °C
housing material	polyester	polyester
protection class	IP 67	IP 67
output indicator	green LED	green LED
adjustment aid	yes	yes
<b>options</b>		
termination options	UNDK 30U9113	UNDK 30U9112
connector options	ES 33, ES 34	ES 33, ES 34
synch./multiplex/alarm output	on request	on request
		

Scanning range Sd	100...700 mm		
Special characteristics	<ul style="list-style-type: none"> <li>Analog voltage output 0 - 10 V</li> </ul>		
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 voltage output	UNDK 30U9103/S14		
Analog current output			
<b>technical data</b>			
scanning range far limit Sde	200...700 mm		
sonic beam angle	10°		
sonic frequency	230 kHz		
voltage supply range	15 - 30 VDC		
residual ripple	< 10% Vs		
supply current	< 30 mA		
max. output current	20 mA		
output	0 - 10 V		
load resistance by Vs > 15 V	-		
load resistance by Vs > 24 V	-		
short circuit protection	yes		
reverse polarity protection	yes		
response time $t_{on}/t_{off}$	< 80 ms		
repeatability	≤ 0,5 mm		
resolution	< 0,3 mm		
temperature drift	≤ 2% So		
temperature range	0...+60 °C		
housing material	polyester		
protection class	IP 67		
output indicator	green LED		
adjustment aid	yes		
<b>options</b>			
termination options	UNDK 30U9103		
connector options	ES 33, ES 34		
synch./multiplex/alarm output	on request		
