


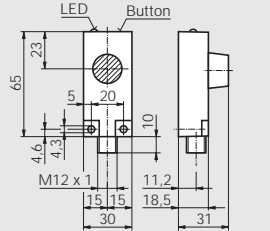
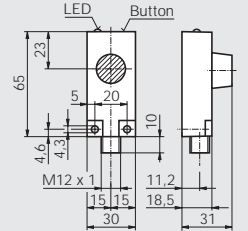



# Ultrasonic analog sensors with Teach-in

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. Operating range and output functions are programmable over the built-in Teach-in button. The sensors with analog voltage output are also available with synchronisation on request.		
Analog current output / cable version		
Analog current output /connector version		
Analog voltage output / cable version	UNDK 30U6113	UNDK 30U6112
Analog voltage output / connector version	UNDK 30U6113/S14	UNDK 30U6112/S14
<b>technical data</b>		
operating range	Sdc...Sde (min. 40 mm)	Sdc...Sde (min. 50 mm)
close limit Sdc (Teach-in button)	30...110 mm	60...250 mm
far limit Sde (Teach-in button)	70...150 mm	110...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. switching current	20 mA	20 mA
output (function invertible)	0 - 10 V / 10 - 0 V	0 - 10 V / 10 - 0 V
load resistance at Vs > 15 V	-	-
load resistance at 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
connector options	ES 33, ES 34	ES 33, ES 34
green LED	target in operating range	target in operating range
red LED	target at close range	target at close range
adjustment aid	flashing target display	flashing target display
		

Scanning range Sd	100..700 mm	
Special characteristics	<ul style="list-style-type: none"> <li>Analog voltage output 0 - 10 V</li> </ul>	
		
Analog current output / cable version		
Analog current output /connector version		
Analog voltage output / cable version	UNDK 30U6103	
Analog voltage output / connector version	UNDK 30U6103/S14	
<b>technical data</b>		
operating range	Sdc...Sde (min. 50 mm)	
close limit Sdc (Teach-in button)	100...650 mm	
far limit Sde (Teach-in button)	150...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. switching current	20 mA	
output (function invertible)	0 - 10 V / 10 - 0 V	
load resistance at Vs > 15 V	-	
load resistance at 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	
connector options	ES 33, ES 34	
green LED	target in operating range	
red LED	target at close range	
adjustment aid	flashing target display	
