

Ultrasonic analog sensors with Teach-in

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. Operating range and output functions are programmable through the built-in Teach-in button. The sensors with analog voltage output are also available with synchronization on request.		
Analog current output / cable version		UNDK 30I6103
Analog current output / connector version		UNDK 30I6103/S14
Analog voltage output / cable version	UNDK 30U6103	4144351
Analog voltage output / connector version	UNDK 30U6103/S14	
technical data		
operating range	Sdc... Sde (min. 50 mm)	Sdc... Sde (min. 50 mm)
close limit Sdc (Teach-in button)	100... 650 mm	100... 650 mm
far limit Sde (Teach-in button)	150... 700 mm	150... 700 mm
sonic beam angle	10°	10°
sonic frequency	230 kHz	230 kHz
voltage supply range +Vs	15 - 30 VDC	15 - 30 VDC
residual ripple	< 10% Vs	< 10% Vs
supply current	< 30 mA	< 50 mA
max. output current	20 mA	≤ 20 mA
output (function invertible)	0 - 10 V / 10 - 0 V	4 - 20 mA / 20 - 4 mA
load resistance at Vs > 15 V	-	≤ 400 Ω
load resistance at Vs > 24 V	-	≤ 600 Ω
short circuit protection	yes	yes
reverse polarity protection	yes	yes
response time t_{resp}	< 80 ms	< 80 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	ESW 33, ESG 34	ESW 33, ESG 34
yellow 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
		