



Ultrasonic sensors with analog output and Teach-in

Scanning range Sd	100...700 mm	100...700 mm
Special characteristics	• Analog current output 4-20 mA	• Analog voltage output 0-10 V
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.		
Analog current output / cable version	UNAM 30I6103	
Analog current output /connector version	UNAM 30I6103/S14	
Analog voltage output / cable version		UNAM 30U6103
Analog voltage output / connector version		UNAM 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	15 - 30 VDC	15 - 30 VDC
residual ripple	10% Vs	10% Vs
supply current	< 55 mA	< 30 mA
max. switching current	24 mA	20 mA
output (function invertible)	4 - 20 mA / 20 - 4 mA	0 - 10 V / 10 - 0 V
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 ton/toff	< 100 ms	< 80 ms
repeatability	≤ 1 mm	≤ 0,5 mm
resolution	< 0,5 mm	< 0,3 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
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
alignment aid	target display flashing	target display flashing
