

# Ultrasonic distance measuring sensors

## UNAR 18I6903/S14G

### dimension drawing



### general data

special type	chemically robust
scanning range Sd	100 ... 1000 mm
scanning range close limit Sdc	100 ... 1000 mm
scanning range far limit Sde	100 ... 1000 mm
repeat accuracy	< 0,5 mm
resolution	< 0,3 mm
response time ton	< 80 ms
release time toff	< 80 ms
temperature drift	< 2 % of distance to target So
sonic frequency	240 kHz
adjustment	Teach-in
alignment aid	target indication flashing
light indicator	yellow LED / red LED
approvals/certificates	Ecolab

### electrical data

voltage supply range +Vs	15 ... 30 VDC
current consumption max. (no load)	55 mA
output circuit	current output
output signal	4 ... 20 mA / 20 ... 4 mA
output current	< 20 mA
load resistance +Vs max.	< 1100 Ohm
load resistance +Vs min.	< 400 Ohm
residual ripple	< 10 % Vs
short circuit protection	yes
reverse polarity protection	yes

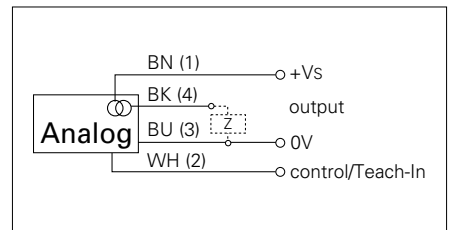
### mechanical data

type	cylindrical threaded
housing material	stainless steel 1.4435 (V4A)
coating active face	Parylene
material O-ring	FFKM
front of sensor durable against pressure	6 bar, 20'000 cycle
width / diameter	18 mm
height / length	91,5 mm
connection types	connector M12

### photo



### connection diagram



- internal and external Teach-in
- chemically robust version

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### ambient conditions

operating temperature	0 ... +60 °C
protection class	IP 67

### typical sonic cone profile

