

UR18.DA0-UA1B.7BO

Ultrasonic distance measuring sensors

Article number: 11119994

Overview

- 100 ... 1000 mm
- voltage output
- qTeach
- connector M12
- -25 ... 70 °C
- IP 67



Picture similar



Technical data

General data

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
Power-up drift	Compensated after 10 min.
Sonic frequency	220 kHz
Adjustment	qTeach
Light indicator	LED yellow
Power on indication	LED green
Alignment measuring axis	< 2°

Electrical data

Voltage supply range +Vs	12 ... 30 VDC
Current consumption typ.	38 mA
Output circuit	Voltage output
Output signal	0 ... 10 V / 10 ... 0 V
Residual ripple	< 10 % Vs
Short circuit protection	Yes
Reverse polarity protection	Yes, Vs to GND

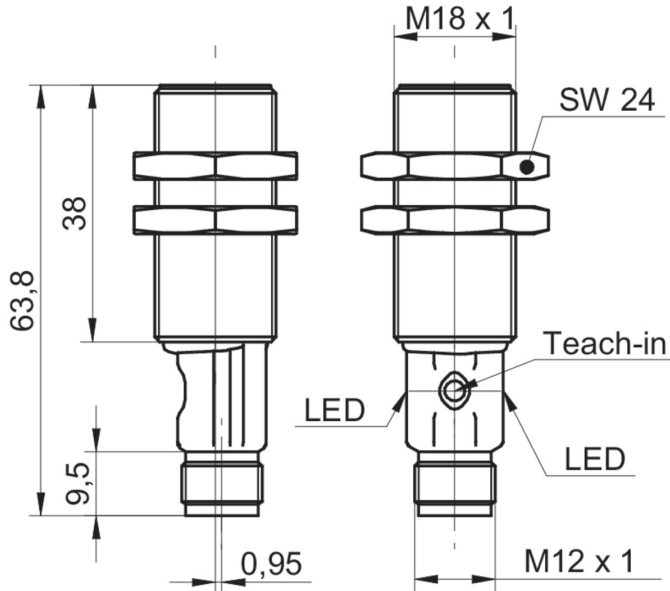
Mechanical data

Type	Cylindrical threaded
Housing material	Brass nickel plated / TR90
Width / diameter	18 mm
Height / length	64 mm
Connection types	Connector M12

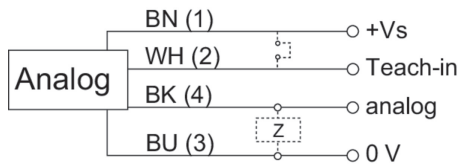
Ambient conditions

Operating temperature	-25 ... +70 °C
Storage temperature	-40 ... +85 °C
Protection class	IP 67

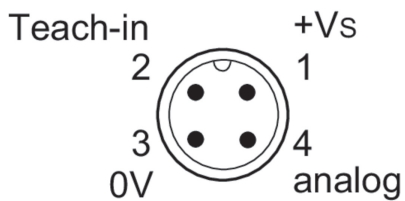
Dimension drawing



Connection diagram



Pin assignment



Typical sonic cone profile

