

# Ultrasonic sensor cylindrical XX918A3C2M12

**Dietz**  
Sensortechnik



## Technical data

Sensor design	cylindrical M18
Detection system	diffuse
(Sn) nominal sensing distance	0.5 mm adjustable with remote teach push-button
Material	Plastic
Type of output signal	analog output
Wiring technique	4-wire
Analog output function	4...20 mA
(Us) rated supply voltage	12...24 VDC with reverse polarity protection
Electrical connection	male connector M12, 4-pins
Sensing range (Sd)	0.051-0.508 m
Beam angle	6 °
Protection class	IP 67
Housing material	Valox
Front material	Epoxy
Thread type	M18 x 1
Supply voltage limits	10...28 VDC
Blind zone	0...51 mm
Transmission frequency	300 kHz
Repeatability	1.27 %
Deviation angle from 90 ° of objekt to be detected	-7...7 °
Minimum size of detected object	cylinder diameter 1.6 mm
Status LED	1 LED (dual color) for setting-up assistance 1 LED (green) for supply ON 1 LED (yellow) for output state
Current consumption	40 mA
Max. switching capacity	10...500 Ohm overload- and short-circuit protection
Voltage drop	< 1 V
Setting-up	Slope selection using teach-button
Delay first up	100 ms
Delay response	25 ms
Delay recovery	25 ms
Threaded length	43 mm
Ambient air temperature for operation	-20...65 °C
Ambient air temperature for storage	-40...80 °C
Vibration resistance	+/-1 mm
Shock resistance	30 gn in all axes for 11 ms

