



# PIKTEC

## ULTRASONIC SENSOR WM3E/I9-1000

### Detection properties

Nominal detection distance	1000mm
Thermal drift	± 2%
Repeatability	0.50%
Beam opening angle	10 ° ± 2 °
Resolution	≤3mm
Sensitivity adjustment	Teach-in button
Hysteresis	1%
Thermal compensation	Yes
Minimum detection distance (dead zone)	80mm
Linearity error	1%

### Application

Principle of operation	Direct diffusion
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### Go out

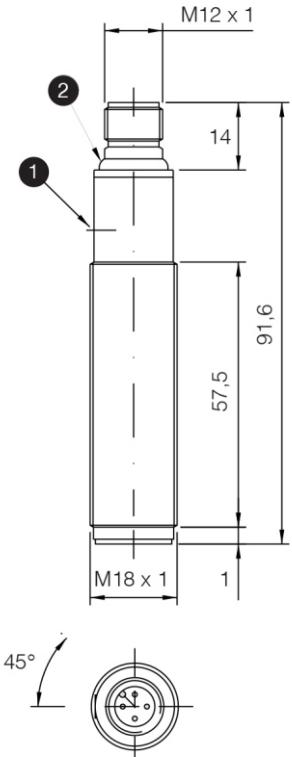
Type of output	PNP + 0 ... 10V
Exit function	NO / NC + positive / negative ramp
Switching frequency	4Hz
Response time	500ms

### Electrical data

Supply voltage	10 - 30Vdc
Absorption when empty	≤50mA
Load current	100mA
Leakage current	10µA @ 30Vdc
Voltage drop at the output	2.2Vmax. @ IL = 100 mA
Maximum residual ripple	5%
LED indicators	green: echo - yellow: exit
Late availability	≤300ms
Short circuit protection	Yes
Reverse polarity protection	Yes
Impulsive overvoltage protections	Yes
Minimum load resistance	3kΩ

### Mechanical data

Dimensions	M18 x 1 / L = 91.6mm
Weight	100g
Body material	AISI 316L stainless steel
Connections	M12 connector
Tightening torque	50Nm
Operating temperature	- 20 ° C ... + 70 ° C
Storage temperature	- 35 ° C ... + 80 ° C without ice
Transducer frequency	300kHz
Diameter / Dimensions	M18



1 Teach-in

2 LED