



Symmetric Ultrasonic Sensor Specification

Series FHDS16A

Model Number: FHDS16A12LFPM

Version 1.0

Address: 28 Genting Lane, #08-07 Platinum 28, Singapore 349585

Tel: +65-6493 5035

Fax: +65-6493 5037

Website: <http://www.flezon.com>

Email: flezon@flezon.com

1. ELECTRICAL SPECIFICATIONS



Model No.: FHDS16A12LFPM

Description: SUS 16D 12H 10V PIN ALUMINIUM RoHS

MODEL NO.	FHDS16A12LFPM	
CONSTRUCTION	WATERPROOF TYPE	
FUNCTION	TRANSMITER & RECEIVER	
DIAMETER (A) ± 0.3	mm	$\varnothing 16.0$
HEIGHT (B) ± 0.3	mm	12.0
SOUND PRESSURE LEVEL (0dB = 0.0002 ubar)	Min. 100.0 dB (10.0 V rms Sine Wave / 30.0 cm)	
SENSITIVITY	Min. - 82.0 dB (v / ubar)	
CENTER FREQUENCY	Hz	40000 \pm 1000
Directivity (deg) X - axis	75.0 \pm 15.0	
CAPACITANCE AT 1KHz	pF	1800 \pm 15 %
ALLOWABLE INPUT VOLTAGE	p-p	140V (40 KHz) Pulse width 0.5 ms / Interval 20 ms
HOUSING MATERIAL	ALUMINUM	
OPERATING TEMPERATURE	$^{\circ}$ C	- 40.0 ~ + 80.0
WEIGHT	3.0 g	

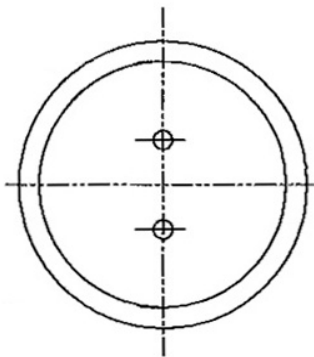
2. PHYSICAL DIMENSION



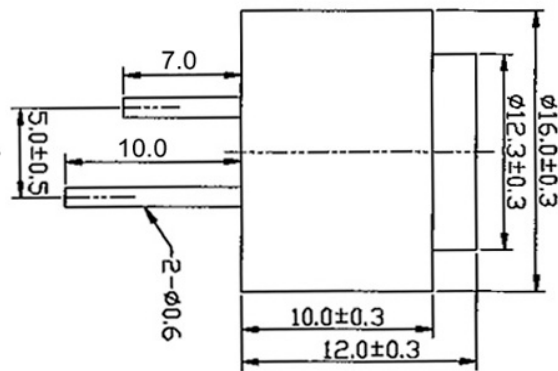
All dimensions stated are in mm

Tolerance: ± 0.5 mm

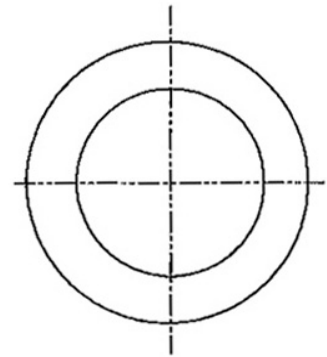
BOTTOM VIEW



SIDE VIEW



TOP VIEW



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Revision History

Revision	Date	Description
1.0	2013.08	First Released

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