STP-366

SENSORTEC
ULTRASONIC SENSOR TECHNOLOGY

IFT LESS, LIN type digital ultrasonic sensor

1. Features

- Comfort and support when parking and maneuvering
- 15.5mm membrane diameter
- Narrow directivity for Parking Space Scanning
- Multiple obstacles can be detected
- Using 4 Pin
- LIN2.2 (Up to 20Kbit/s)
- Real time detection with short latency

2. Applications and Uses

- Parking assistance system
- Autonomous Parking System
- Object detection for Autonomous Vehicle .
- Blind spot detection System

3. Specifications

Item		Min	Typ	Max	Unit	Description
Operating Voltage		9	12	16	V	
Current Consumption		10	20	50	mA	Each sensor's current consumption.
Detectable Range		0.25	-	2.0	m	Target : 75mm PVC PIPE
Operating Frequency		46.5	48.0	49.5	kHz	
Output		LIN2.2			-	
Directivity	Horizontal	85	95	105	Deg(°)	Only Sensor Cell -6dB sound pressure level
	Vertical	35	45	55		
Operating Temperature		-35	-	80	℃	
Storage Temperature		-40	-	85	℃	

Note :

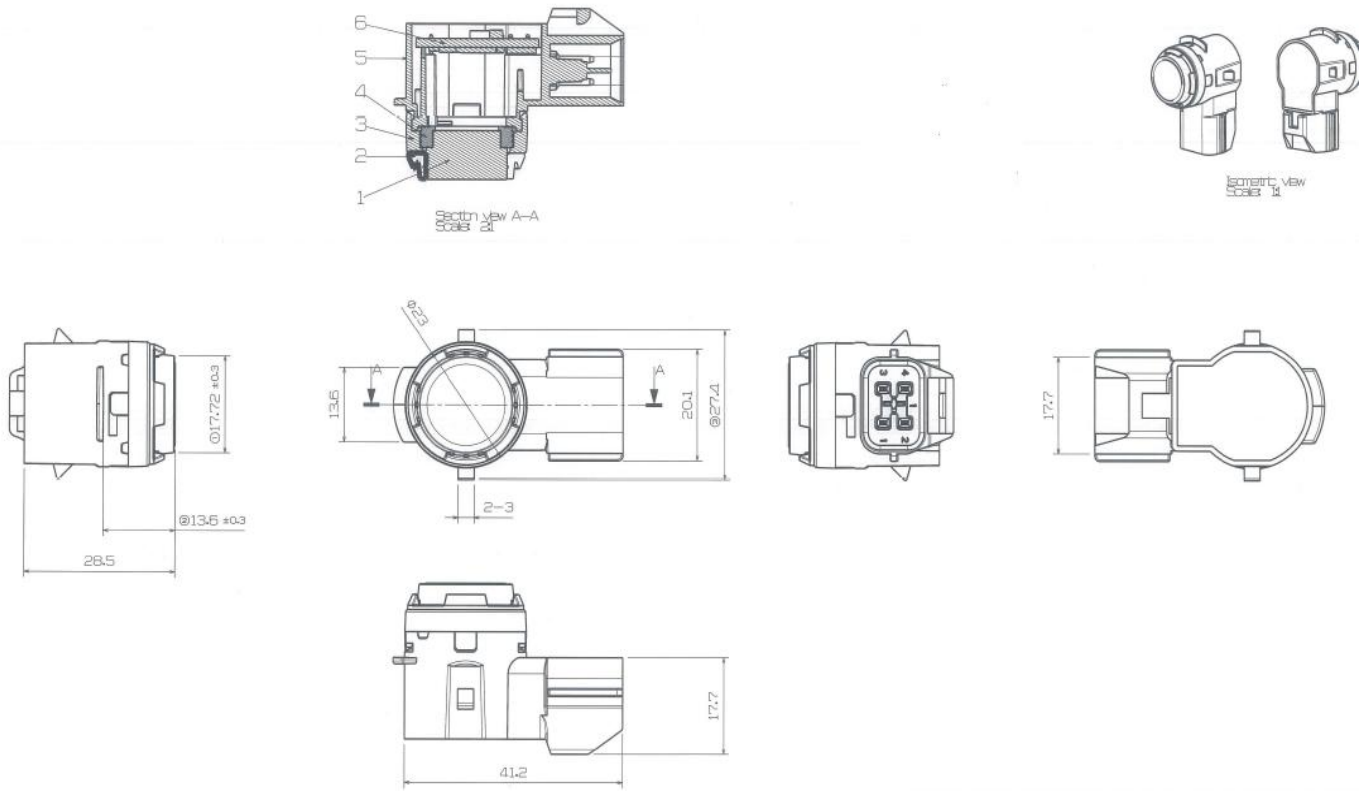
・This parking sensor can detect from 0.25m in one sensor.

・Resolution is 1cm.

(Temperature based distance calculation is not included.)

・Connector : Preparing connector specifications (4 Pin, Waterproof Type)

4. Dimension (TBD)



5. Pin Configuration

	No.	PIN No.	Signal Name	Signal Description
PIN Description	1)	PIN 1	LIN	LIN
	2)	PIN 2	GND	Ground
	3)	PIN 3	ID	ID setting
	4)	PIN 4	VCC	Power
Connector end view	1)	Showing the mating face, looking to the module