# Low-cost Environmental Resistant Tilt Sensor with Digital Filter [THD4000Z-R]

Product Features

Environmental Resistant



# Customizable

In Development

## Environmental Resistant

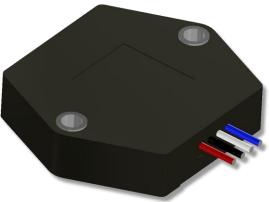
Water-proof/Dirt-proof [IP67] EM wave resistance 100V/m

#### High-Precision

Absolute Linearity ±1%FS Horizontal Temp. Characteristics ±0.2°

### ♦ Customizable

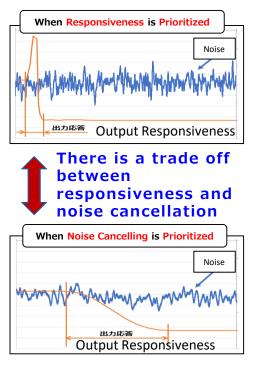
Selectable Electrical Travel ±10~±60° Horizontal Output Zero Set Function(Optional) XVarious customizations available in small quantities



%Product Image

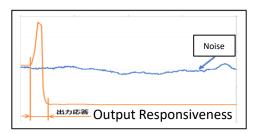
#### Digital Filter Feature

#### THD2000Z Series





## THD4000Z-R Series



#### Simultaneous highresponsiveness and noise cancellation

#### Applications

Industry	Function		
Construction Machine	Automobile body angle detection		
Construction Machine	Boom angle detection		
Civil Engineering	Building angle detection		



#### Tentative Specifications

#### Outer Dimension

I

Items		Specifications		-	64.5 >
	Effective Electrical Travel	$\pm$ 10, 20, 30, 45, 60°		<	40
Basic	Absolute Linearity	±1.0%FS			
ic O	Input Voltage	DC 5±0.25V		/	
har	Output Type	Voltage Ratio	5	Λι	
act	Output Range	10%~90%Vin	-(	$\bigcirc$	
eris	Temp. Characteristics	$\pm$ 0.2° (Horizontal)	Metal Collar		
Characteristics	Moutning	M6 mounting screws			
		AWG#20 wire 4 strands		$\wedge$	
m	Operating Temp.	-30∼85°C	Resin(B	lack)	
Environment Features	EM Wave Resistance	100V/m(ISO11452-2,-3)			Wire AVX-0.5f
	EM Field Strength	CISPR25	[		
	ESD	$\pm 16 kV (IEC61000-4-2)$			20000
	IP Rating	IP67			· · · · · · · · ·

#### 2 Axis Tilt Sensor Lineups

Items	THD2000Z	THD4000Z-R	ESC3000Z
Shape		In Development	
Dimensions	ø40 x H10mm	W60 x D64.5 x H16	W90 x D70 x H22.5
Absolute Linearity	±1.0%FS	±1.0%FS	±0.5%FS
Temp.	±0.2° (Horizontal)	$\pm$ 0.2° (Horizontal)	±0.2° (Horizontal)
Characteristics	-30~+85°C (25°C Std.)	-30~+85°C (25°C Standard)	-30~+85°C (25°C Standard)
IP Rating	IP40	IP67	IP67
Mass	Approx. 15g	Approx. 80g	Approx. 300g