

## DIGITAL TILT SWITCH

### FEATURES

- Compact, light weight, rugged
- High accuracy
- Relay output

### APPLICATIONS

- Motion sensing for asset security
- Boom angle indicator in cranes
- Safe load indicator in heavy equipment
- ATM machine safety
- Operational time indication of heavy equipments



### INTRODUCTION

Aeron's Tilt Switch (ARN-TSW) product is a combination of Digital Tilt Sensor and Switching Device. It measures the two angles in roll (longitudinal) and pitch (lateral) directions of the platform it is attached with and generates switching output when the angles reach threshold limits. The threshold angles are configurable to the application requirement.

Owing to its rugged built, the device is ideally suited for automotive applications such as dump-trucks. The device has two separate relays for Roll and Pitch limit angles which can take control action or generate alarm according to the user application. This product integrates with a two axis display which can be mounted in driver cabin. For details check Tilt Switch and Display (ARN-TSWD) solution.



**TECHNICAL SPECIFICATIONS**

Parameter	Value/Type	Units
Measurement Range	±60 (pitch) ±180 (roll)	Degrees
Resolution	0.01	Degrees
Accuracy	±0.1	Degrees
Update rate	1	Hz
Roll angle limit*	±2	Degrees
Pitch angle limit*	±5	Degrees
<b>Electrical</b>		
Power Supply	+12 to +24	Volts DC
Current consumption	< 200	mA
<b>Mechanical</b>		
Shock Survival	20	g <sup>#</sup>
Casing Material	Aluminum	
Size	94 x 58 x 46	mm
Weight	< 200	gm
Working Temperature	-10 to +65	°C
Storage Temperature	-20 to +80	°C
<b>Relay</b>		
Load Voltage	24VDC/230VAC	-
Load Current	5	A

\* Factory Configurable

# Acceleration due to gravity

**DIMENSIONAL DRAWING**

All dimensions are in mm

