

Quality, Innovation & Customer Support

TILT SWITCH

WHO ARE WE?

Hyva has been operating in the transportation solutions industry for 40 years, from the establishment of a small business in 1979 in the Netherlands, Alphen aan den Rijn, to a multinational company operating worldwide.

Started its operation in India in 1996 and now spread its wings to 4 manufacturing plants - Navi Mumbai, Pune, Bangalore, and Jamshedpur.

A tilt switch is a device used **for measuring the tilt** of an object in multiple axes with reference to an absolute level plane. Tilt sensors work by **detecting changes in angle from a pre-set "zero" state**. They are set with a maximum and minimum threshold in which the application will work or be safe to operate based on the specific application's needs.

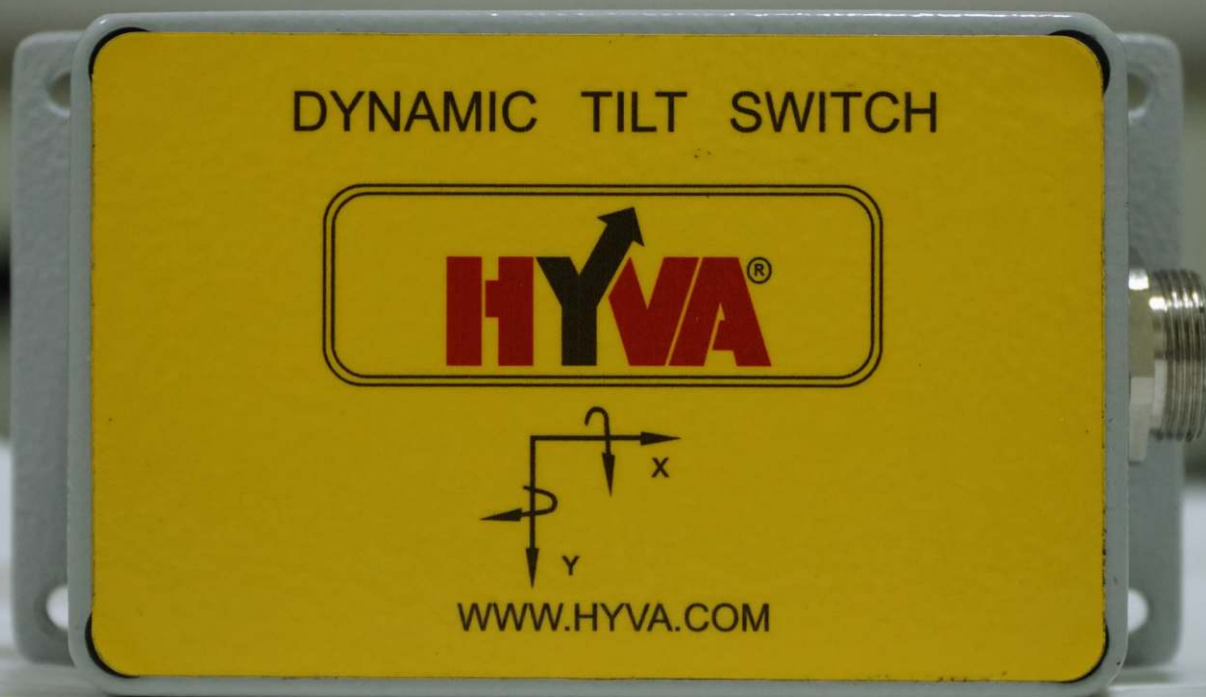
If the tilt or inclination exceeds these threshold values in either direction, it starts sending an operation to an external device such as an **alarm or warning light to indicate unsafe or non-working conditions**. Thus preventing Tipper/Trailer rollover if the lateral inclination of tipper & pitch crosses a preset safe tilt angle-enhance operator safety.



Features:

- Provides complete air leakage proof system.
- Provides more robust components which can be used in harsh environment.
- Operator is aware in case the system is Not Working.
- Tipper will not be under breakdown if the system FAILS.
- Provides better environmental protection - IP67 that offers complete protection against entry of dust & against short periods of immersion in water (*can sustain in all weather conditions*).





Hyva Tilt Switch aims at -



SAFER

Ensure safe tipping operation by preventing vehicle toppling/roll over.



LONGER LIFETIME

Prevents damage to tipping body and hinges so less strain on vehicle. Hence enhanced chassis frame and axle life.



IMPROVED PRODUCTIVITY

This system is integrated along with the tipper hydraulic kit to stop the tipping incase it is performed on an uneven/inclined ground.



BUILD IN SELF-TEST

The TILT switch comes with a Self-Test Feature, hence less vulnerable formal function from drivers.



REDUCED MAINTENANCE

Prevent tipping system (cylinder) damage under heavy side loads.

Applications:

- Elevated work platforms.
- Agricultural machinery.
- Forklift trucks.
- Construction equipment's.
- Stackers.

The kit will consist of :

- Tilt Switch with Health indicator (Built in Self-Diagnostics)
- Electro-Pneumatic solenoid switch
- Audio – visual indicator (buzzer with LED)

Specifications:

No. of axis	2
Measurement range	+/- 60°C (pitch)
Measurement range	+/- 180°C (roll)
Power supply	+9 to +32VDC
Current consumption	<200mA
Environmental sealing	Ip67
Operating temperature	-40°C to +85°C
Accuracy	+/- 0.5° (static)
Configurable	can be programmed on field

110 countries
+3,500 employees
20,000 customers
+30 subsidiaries
14 production facilities



Hyva is a leading provider of innovative and highly efficient transport solutions for commercial vehicles used in transport, construction, mining, materials handling and environmental service industries.

Founded in 1979 in the Netherlands, the company has a global presence with more than 30 wholly owned subsidiaries, extraordinary service coverage and 14 manufacturing facilities in Brazil, China, Europe and India.

For more information on Hyva, please visit www.hyva.com

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