

## 0729-1758-99

### Single Axis Programmable Tilt Switch Non-Mercury



#### Description

Fredericks Programmable Tilt Switch is a combination Microprocessor based electronics and TrueTilt™ dual axis tilt sensor in a compact, high-impact plastic case. This design provides the user with a non-mercury, field settable switch solution for many applications. The assembly can be easily custom configured for a wide variety of angle range trip points. It avoids the wide hysteresis errors of most mercury and gravity ball switches over temperature. The simple design makes it cost effective for prototype and production requirements.

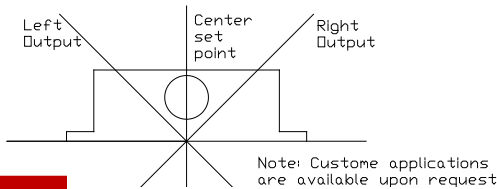
- +4.5 to +28 Volt Single Power Supply
- ±1 to 45° Sensing Range
- Open collector functionality: open/non-tripped, low/tripped  
For opposite functionality low/non-tripped, open/tripped) see the 0729-1757-99

#### Applications Include

- » Vehicle Tip-Over Protection / Warning
- » Alarm System Activation
- » Structural Threshold Monitoring
- » Cut Off Switch

#### Programming and Operation

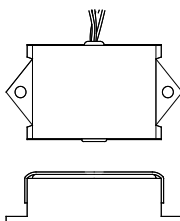
Unit can be programmed to trip at any point within its angle range. This is accomplished very simply by applying power and inserting and removing a jumper\* at the starting and trip point. Refer to operating manual for programming information. The unit can be reprogrammed as often as necessary for any application.



\*Potted units have wires

#### Case Dimentions

Length	2.00"
Width	1.50"
Height	0.750"
Flange Length	3.00"
Flange Holes (centerline)	2.50"
Hole Diameter	0.190"



#### Sensor Operating Specifications

Tilt Sensor Part Number	0717-4319-99
Operating Range (max)	± 45°
Repeatability	0.1°
Resolution	<0.2 arc minutes
Symmetry (typ)	5%
Mech. Crosstalk / Deg. (to 20°)	0.025°
Temperature coefficient	
null	20 arc sec / °C
scale	0.1% / °C
Stability @ 24 Hrs	0.1°
Operating & Storage temperature	-40° C to +70° C*
Time Constant(1)	≤ 100 msec
Materials	magnetic

\* Limited by housing

#### Circuit Board Operating Specifications

Power Supply Voltage (range)	+4.5 to + 28 VDC
Power Supply Current (typical)	1.0 mA @ 12 VDC
Output (left)	200 mA max.
Output (right)	200 mA max.
Cable length	18.0"
Output Delay	0.5 sec
Output Hysteresis	1.0°

#### Wiring Connections

Wire Description	Power	Common	Output Left	Output Right	
Red	X				+4.5 to 28 VDC
BLK		X			Power/signal common
Green		X			Power/signal common
Blue			X		Open/non-tripped* Low/tripped* 200 mA (max)
Gray				X	Open/non-tripped* Low/tripped* 200 mA (max)

\*Consult factory for other configuration

NOTE: The outputs (left and right) are open collector



## Distribuidor

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