

Model EIMW-1015AD Switching Type, Omni-directional Inclination Sensor



Model List	Detection Inclination	Operation Configuration
EIMW-1015AD	± 10 ° and ± 15 °	Normally open
EIMW-1015AD1		Normally closed

Application

- (Movement in case of theft) anomaly detection of vehicle
- Inclination detection of agricultural equipment
- Security of mechanical instruments

Features

- The inclination angles ±10° and ±15° are always detected regardless of direction (e.g.: Long-side direction, short-side direction, 45° oblique direction, etc.).
- For open-drain output, can directly input to the microcomputer, etc. without the need for a special interface circuit.
- Because it is IP67 protection structure, you can also use in places where water splashes.
- Resistant to irradiated electromagnetism thanks to its internal shield.
- It is possible to handle standard angles other than the detection angle range of ±10°, ±15°.

Rating/Performance

Model	EIMW-1015AD	EIMW-1015AD1
Detection Inclination	± 10 ° ±15 °	
Output Deviation	± 1.0 °	
Power Voltage	12 V to 24 V DC (Operating voltage range: 9.0 V to 30 V DC)	
Power Consumption	10 mA DC or less	
Output	Nch MOSFET open drain 30 V DC, 150mA DC or less	
Output Residual Voltage	1 V DC or less (150 mA DC)	
Operation Status	Normally open (Output ON when inclination angle is detected)	Normally closed (Output OFF when inclination angle is detected)
Response Time	0.8 s or less (Step response, and by placing the 90 % arrival time),	
Temperature Range	-20 to 70 °C (-20 to 75 °C during storage)	
Humidity Range	35 to 95 % RH (35 to 95 % RH during storage)	
Breakdown Voltage	500 V AC, 50/60 Hz for 1 min (Between live parts and mountings)	
Insulation Resistance	100 MΩ or more, at 500 V DC megger (Between live parts and mountings)	
Vibration Resistance	Durability : 10 to 55 Hz, Double amplitude: 1.5 mm in X-, Y-, and Z-direction, each 2 hours (Device not powered)	
Shock Resistance	Durability : 1000 m/s ² (Approx. 100 G) in X-, Y-, and Z-direction, each 3 times (Device not powered)	
Ingress Protection	IP67	
Case Material	ABS resin	
Cable	ø6.6, 4-core round cord of 0.5 mm ² and insulation 1.9 mm and 1 m in length (VCTF)	
Weight	Approx. 89g	

