

### IMU+ Dynamic Inclinometer

#### IMU6MZ360-x-CL

- Inclinometer with CAN based interface
- Variable mounting position and zero point
- High accuracy over the entire measurement range
- Sensor fusion: filtering of external disturbances
- 6 axial inertial measurement unit with accelerometer and gyroscope



Figure similar

### Technical Data:

General Parameters	Inclination	Accelerometer	Gyroscope
Measurement range	360°	±8 g	±250 °/s
Resolution	0.01°	0.244 mg	0.00875 °/s
Sample rate	200 Hz	200 Hz	200 Hz
Static accuracy incl. cross sensitivity (typ.)	±0.1°	-	-
Dynamic accuracy (typ.)	±0.25°	-	-
Temperature coefficient (zero-point, typ.)	±0.0016 °/K	0.02 mg/K	0.005 °/s/K
In run bias stability (typ.)	-	-	2.5 °/h (Z-axis 5 °/h)
ARW - Angular random walk (typ.)	-	-	0.1 °/sqrt(h)
<b>Available Interfaces</b>			
CAN 2.0 A and B (11- and 29-Bit-ID) according to ISO 11898-2			
CANopen according to CiA DS-301, profile according to CiA DSP-410			
SAE J1939 - configurable process data			
<b>Electrical Parameters</b>			
Supply Voltage	7.5 V to 36 V		
Current consumption at 24 V	approx. 12 mA		
<b>Mechanical Parameters</b>			
Connector	2 x sensor connector 5-pole M12 A-coded		
Degree of protection	IP65/67		
Operating temperature	-40 °C to +80 °C		
Dimensions and Weight	114 mm x 66 mm x 30 mm - approx. 330 g		
Housing material	zinc die casting, nickel plated		

### Ordering Information:

Article Number	Product Type	Description
PR-27016-30	IMU6MZ360-C-CL	IMU+ dynamic inclinometer, interface CAN
PR-27116-30	IMU6MZ360-O-CL	IMU+ dynamic inclinometer, interface CANopen
PR-27716-30	IMU6MZ360-J-CL	IMU+ dynamic inclinometer, interface SAE J1939
PR-23999-02	ISPA1	Starter kit including programming adapter, cables and PC software