

# 2 – Dimensional Inclination Sensor



GEMAC

## 2D-NSE-MC

The 2 dimensional inclination sensor 2D-NSE-MC measures inclination up to 180° with high accuracy. Two hermetically sealed micromechanical silicon sensors are characterised by low vibration and climate sensitivity. The sturdy housing allows applications under rough outside conditions. For a high flexibility the sensor is appointed with 3 different outputs. So it is appropriate for almost every measurement problem.



Sensors

### Technical Specifications:

Measurement:	2 - axial
Measurement Ranges:	$\pm 18^\circ$ and $\pm 60^\circ$
Operating Temperature Range:	-20°C up to +70°C
Zero Degree Resolution:	0,02° and 0,06°
Zero Degree Offset:	$\pm 0,25^\circ$
Temperature Drift:	$\pm 0,007^\circ/\text{K}$
Cross Sensitivity:	1% FS
Outputs:	<ul style="list-style-type: none"><li>• 11-bit digital output (RS 232/422)</li><li>• analog output</li><li>• 4 programmable switching outputs</li></ul>
Supply Voltage:	7V .... 30V
Housing:	IP 65 (IP 67) protection class
Dimensions:	100mm x 66mm x 40mm

### Characteristics of 2D-NSE-MC:

- low vibration sensitivity
- shock resistance up to 1000g
- high stability
- high reliability
- high accuracy

### Applications:

Lifting Platforms  
Construction Machinery  
Special Automotive Equipment  
Medicine

Last updated: May 2001

