

3X Series - Inclinometer & Angle Tilt Sensors



TECHNICAL FEATURES

- Inclinometer (X-Y) and Angle (Z) axis in one sensor (2 in 1)
- Dual axis (X-Y) $\pm 60^\circ$ measurement in horizontal position (INCLINOMETER feature)
- Single axis (X-Y) $0..360^\circ$ measurement in vertical position (ANGLE SENSOR feature)
- Signal Type: Configurable CAN-Bus (optional: 0..5V 12 bit analog)
- Built-in filter that compensates sensitivity between axes
- The built-in filter response can be set with the CAN message.
- High inclinometer sensor resolution (X-Y): 0.1° (Range: $-60.0^\circ \sim +60.0^\circ$)
- Very high angle sensor resolution (X-Y) (Z): 0.01° (Range: $0.00^\circ \sim 359.99^\circ$)
- By the CAN message, the angle resolution can be set to 0.1° . (Range: $0.0^\circ \sim 359.9^\circ$)
- Accuracy: $\pm 0.1^\circ$
- CAN Node-ID: 1..127 adjustable (Default: 1)
- Baudrate: selectable at 20 kbps, 50 kbps, 100 kbps, 125 kbps, 250 kbps, 500 kbps (default: 250 kbps)
- CAN message period: 50 ms, 100 ms, 500 ms, 1000 ms can be selected (Default: 100 ms)
- Heartbeat message: $0x700 + \text{Node-ID}$
- Optional redundancy

