

Serie MR406



- 1-dimensional 360°-inclination sensor
- High resolution and accuracy
- Comfortable CAN Bus interface
Baud rates from 10 kBit/s to 1 MBit/s
- High sampling rate and bandwidth
- Programmable vibration suppression
- Functions:
 - aTPDO (RTR, cycle, event-controlled, synchronised)
 - SYNC Consumer (synchronised transmission of the TPOD after receiving a SYNC message)
 - EMCY Producer (exceeding of a limit value, temperature monitoring in the device)
 - Failure monitoring via heartbeat or nodeguarding / lifeguarding
 - Freely configurable limit frequency (digital filter)
- Four freely configurable, potential-free switching outputs (type MR406.2 only)
- Robust, simply mountable aluminium housing
- Suitable for industrial use:
 - Temperature range: -40 °C to +80 °C
 - Degree of protection: IP65/67
- Applications:
 - Industry automation
 - Agricultural and forestry machines
 - Utility vehicles
 - Crane and hoisting technology

Technical data

General Parameters

Measurement axes	1
Measurement range	360° (no limit stop)
Resolution	0,01°
Calibration accur. (at 25 °C)	±0,1°
Nonlinearity	max. ±0,2°
Temperature coefficient	typ. ±0.008 °/K
Cross sensitivity	error at ±45° cross slope max. ±1.5° typ. 20 Hz, 2 nd order (without digital filter)/0.3 ... 25 Hz, 8 th ord. (with digital filter)
Cut-off frequency	
Operating temperature	-40 °C to +80 °C

Characteristics

Interface	CANopen
Data rates	10k, 20k, 50k, 62.5k, 100k, 125k, 250k, 500k, 800k Bit/s, 1 MBit/s TPDO (RTR, cycle, event controlled, synchronised), setting of parameters by SDO and object dictionary, digital filter (butterworth lowpass, 8 th order), SYNC consumer, EMCY producer, output and surveillance of the device's internal temperature (±2.0 K accuracy),
Functions	Failure monitoring via heartbeat or nodeguarding / lifeguarding
four switching outputs (MR406.2 only)	PhotoMOS relays, synchronically switching, freely configurable

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Electrical Parameters

Supply voltage	10 V DC to 30 V DC
Current consumption (MR406.1 / MR406.2)	105 mA to 40 mA / 150 mA to 60 mA
Capacity of the switching outputs (MR406.2)	0,5 A, max. 30 V DC, short-circuit-proof

Mechanical Parameters

Connector CAN	sensor connector 5-pole (M12)
Connector switching outputs (MR406.2)	sensor connector 8-pole (M12)
Degree of protection	IP65/67
Shock survival	max. 3.500g
Dimensions / Mass	58mm x 90mm x 31mm / about 160g

Order key

