Serie MR402



- 2- dimensional inclination sensor with measurement range ±10°/±45°/±60°
- High resolution and accuracy
- Comfortable CANopen interface
- Functions: One TPDO (cyclic, event controlled, RTR) Heartbeat producer, EMCY producer Configurable floating averaging
- Four freely configurable, potential-free switching outputs
- Robust, simply mountable ABS-housing
- Temperature range -40 °C to +80 °C
- Application:

Industry automation Agricultural and forestry machines Utility vehicles Crane and hoisting technology

Order key	Inclination Sensor
Туре	MR402

General Parameters

Measurement axes		
Measurement ranges		
Resolution		
Calibration accuracy (at 25 ° C)		
Nonlinearity		
Temperature range (zero point)		
Cut-off frequency		
Sampling rate		

2 (X / Y) $\pm 10^{\circ} / \pm 45^{\circ} / \pm 60^{\circ}$ $0.05^{\circ} / 0.1^{\circ} / 0.1^{\circ}$ $\pm 0.1^{\circ}$ (zero point and full scale value) max. $\pm 0.2^{\circ} / 0.3^{\circ} / 0.4^{\circ}$ max. $\pm 0.008^{\circ} / K$ typ. 26 Hz (without averaging) 7.5 s⁻¹

Characteristics

Interface		
Data rates		
Functions		

CANopen according to CiA DS-301 und CiA DSP-410 10k, 20k, 50k, 125k, 250k, 500k, 800k Bit / s, 1 Mbit / s TPDO (cyclic, event controlled, RTR), setting of parameters by SDO and object directory, floating averaging, Heartbeat and EMCY producer, output and surveillance of the device's internal temperature (±2.0 K accuracy) PhotoMOS relais, synchronically switched, freely configurable

Electrical Parameter

Supply voltage Current consumption Current carrying capacity of the switching outputs 10 to 30 V DC 105 mA to 40 mA / 150 mA to 60 mA 0.5 A, max. 30 V DC, short-circuit-proof

Mechanical Parameter

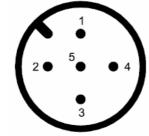
Connector CAN	sensor connector 5-pole (M12)
Connector switching outputs	sensor connector 8-pole (M12)
Degree of protection	IP65/67
Shock survival	max. 3.500g
Dimensions	58mm x 90mm x 31mm
Mass	about 200 g



Serie MR402

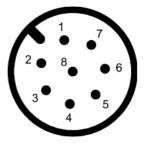
Connector assembly allocation (CAN-Bus-Connector):

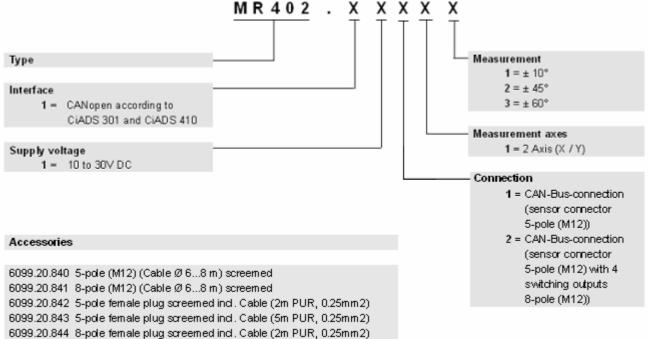
- 1 = Shield
- 2 = Supply voltage
- (+24V)
- 3 = GND
- 4 = CAN _H 5 = CAN _L



Connector assembly allocation (Switching output-Connector):

- 1 = Switching output 0 Allocation +U
- 2 = Switching output 0 Allocation -U
- 3 = Switching output g 1 Allocation +U
- 4 = Switching output 1 Allocation +-U 5 = Switching output 2
- Allocation +U
- 6 = Switching output 2 Allocation -U
- 7 = Switching output 3 Allocation +U
- 8 = Switching output 3 Allocation -U





6099.20.845 8-pole female plug screemed ind. Cable (5m PUR, 0.25mm2) 6099.20.845 8-pole female plug screemed ind. Cable (5m PUR, 0.25mm2)