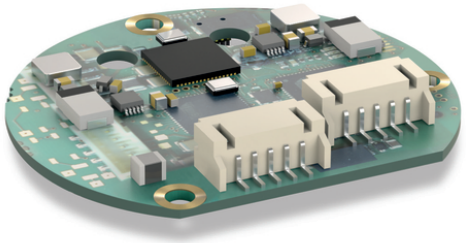
Profile

- redundant single-axis inclination sensor 0 ... 360°
- MEMS capacitive measurement principle
- Suitable for applications up to Performance Level PLd
- temperature-compensated from -40° C ... +85° C
- simple function enhancement



Electrical data

Feature	Technical data	Additional information
Temperature drift	≤0.02 °/K	
	typical 0.008 °/K	
Interface	according to ISO 11898-1/2, not electrically isolated	CANopen, CiA 301, CiA 305, CiA 410
	according to ISO 11898-1/2, not electrically isolated	CANopen Safety, CiA 301, CiA 305, CiA 410, EN 50325-5
Address	1 ... 127	node ID, via SDO or Layer Setting Service (LSS)
Baud rate	20 kBit/s	
	50 kBit/s	
	125 kBit/s	
	250 kBit/s	
	500 kBit/s	
	800 kBit/s	
	1 MBit/s	
Cut-off frequency	0.1 ... 20 Hz	freely parameterizable
Parameter	according to CiA 301, CiA 305, CiA 410, EN 50325-5	CANopen Safety
	according to CiA 301, CiA 305, CiA 410	CANopen

System data

Feature	Technical data	Additional information
Scanning	MEMS	
Resolution	0.01°	
System accuracy	±0.2°	at 20° C
	±0.8°	over the entire temperature and max. measuring ranges
Measuring range	0 ... 360°	1 axis, parameterizable
	±180°	1 axis, freely parameterizable

Characteristics of functional safety

Feature	Technical data	Additional information
MTTFd	570 year(s)	at 60° C per channel
PFHd	201 FIT	at 60° C according to DIN/EN 61508 Part 6, Ed. 2, 1 FIT = 1.0 E-09 1/h
DCavg	74 %	at 60° C according to ISO 13849-1, Appendix E.2

Ambient conditions

Feature	Technical data	Additional information
Relative humidity	95 %	condensation not permitted

Accessories:

Absolute encoder WH58MR	*www.siko-global.com*
Absolute encoder WV58MR	*www.siko-global.com*