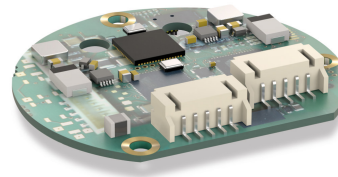


### Profile

- redundant single-axis inclination sensor 0 ... 360°
- MEMS capacitive measurement principle
- Can be used in applications up to performance level PLd
- temperature-compensated from -40 ... 85° C
- simple function enhancement



### Electrical data

Feature	Technical data	Additional information
Temperature drift	≤0.02 °/K 0.008 °/K, typical	
Interface	according to ISO 11898-1, not electrically isolated	CANopen, CiA 301, CiA 305, CiA 410
	according to ISO 11898-1, 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	
Cut-off frequency	0.1 ... 20 Hz	freely parameterizable
	Parameter	according to CiA 301, CiA 305, CiA 410, EN 50325-5 according to CiA 301, CiA 305, CiA 410

### 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 range
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 inadmissible