

V1.1/11.2023



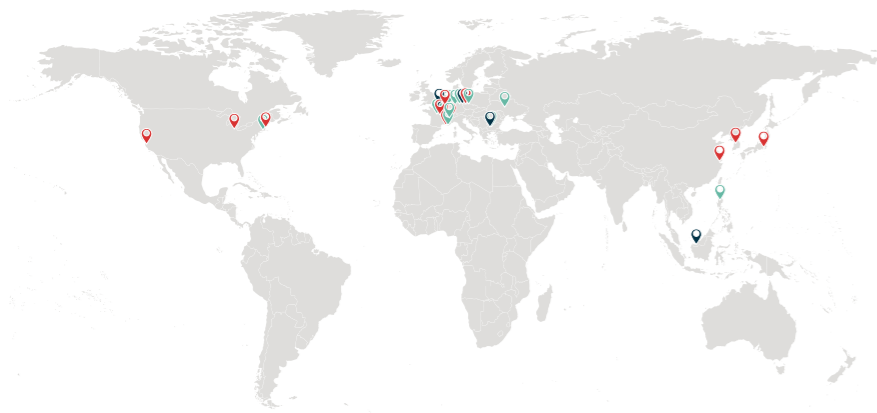
International Presence

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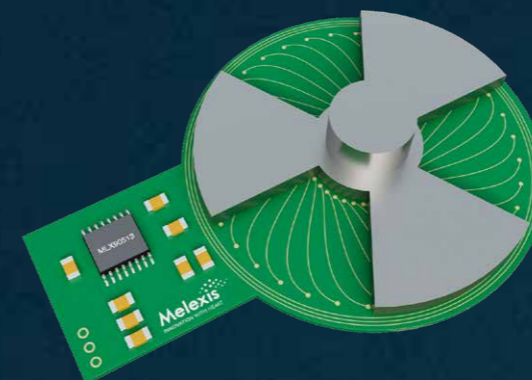
Americas
sales_usa@melexis.com



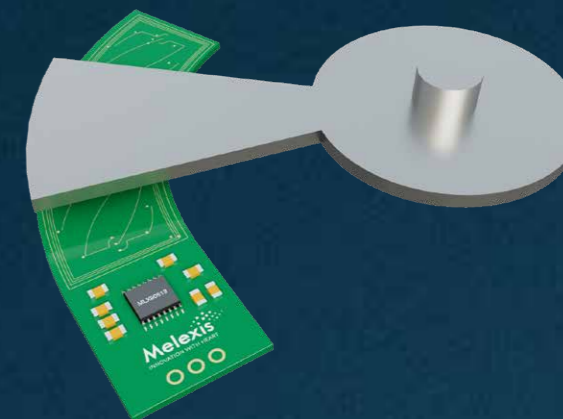
- Research & Development
- Sales & Applications
- Manufacturing



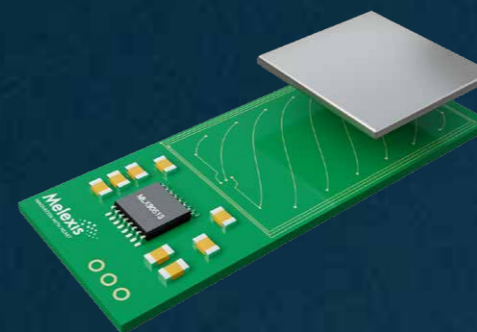
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Rotary (360°)



Arc



Linear (<30cm)

SELECTION GUIDE

INDUCTIVE POSITION SENSOR

We offer state of the art inductive position sensor interfaces to address new challenges such as e-machines, e-brake booster and e-steering type of applications.

Inductive position sensing - primarily intended for standalone applications																					
Part Number/Ordering Code	Status	Motions				Input range min - max	Data rate	Supply	Idd	Output					Operating temperature	Angular processing	Package	(A)SIL ready	Strayfield immunity ISO11452-8	AEC-Q100	
		End-of-shaft (on-axis)	Through-shaft (off-axis)	Side-shaft (off-axis)	Linear	[mV]	[kHz]	[V]	[mA]	Ratiometric analog	PWM	SENT	SPC	note	Resolution [bit]		[°C]				SMD TSSOP-16
MLX90513GGO-CAA-100	prod	✓	✓	✓	✓	2.5 - 100	7	5	10	✓	✓	✓			16	-40...160	yes	✓	C	infinite	✓
MLX90513GGO-CAA-180	prod	✓	✓	✓	✓	2.5 - 100	7	5	10	✓	✓	✓	✓		16	-40...160	yes	✓	C	infinite	✓

Inductive motor position sensing - intended for motor positioning solution with inductive resolver interface																			
Part Number/Ordering Code	Status	Motions				Input range min - max	Rotor speed max	Rotor acceleration	Supply	Idd	Output			Operating temperature	Angular processing	Package	(A)SIL ready	Strayfield immunity ISO11452-8	AEC-Q100
		End-of-shaft (on-axis)	Through-shaft (off-axis)	Side-shaft (off-axis)	Linear	[mV]	[k e-rpm]	[k e-rpm/s]	[V]	[mA]	differential sinus / cosinus	note	Resolution [bit]	[°C]		SMD TSSOP-16			
MLX90510GGO-BBA-100	prod	✓	✓	✓		5 - 100	240	480	5	15	✓	compensated	sin / cos	-40...160	yes	✓	C	infinite	✓
MLX90510GGO-BBA-101	prod	✓	✓	✓		5 - 100	240	3600	5	15	✓	compensated	sin / cos	-40...160	yes	✓	C	infinite	✓
MLX90510GGO-BBA-102	prod	✓	✓	✓		5 - 100	240	12000	5	15	✓	compensated	sin / cos	-40...160	yes	✓	C	infinite	✓
MLX90517GGO-AAA-100	prod	✓	✓	✓		5 - 100	660	-	5	15	✓	raw	sin / cos	-40...160	no	✓	C	infinite	✓

