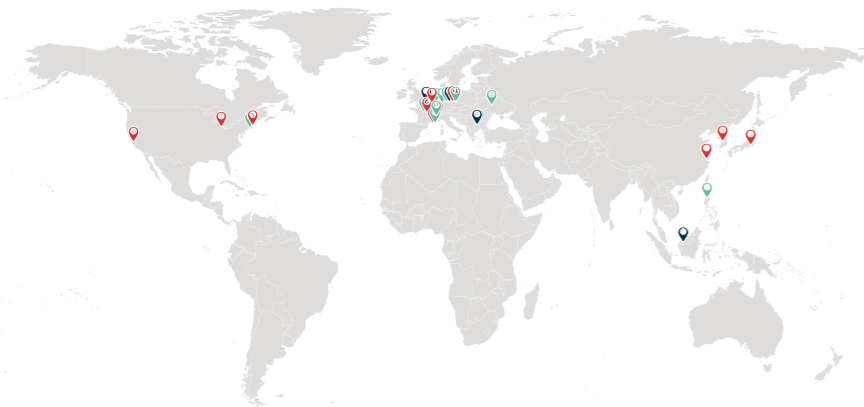# Melexis
INNOVATION WITH HEART

International Presence

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Oilbirds navigate by echolocation. They produce a high-pitched clicking sound of around 2 kHz which is audible to humans. With the ability to transmit and receive information to sense their position, the oilbirds represent our inductive position sensors.
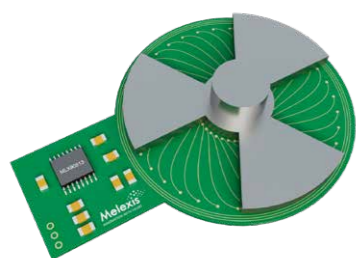
SELECTION GUIDE

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 typoe of 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 position sensing - primarily intended for standalone applications

Inductive motor position sensing - intended for motor positioning solution with inductive resolver intereface

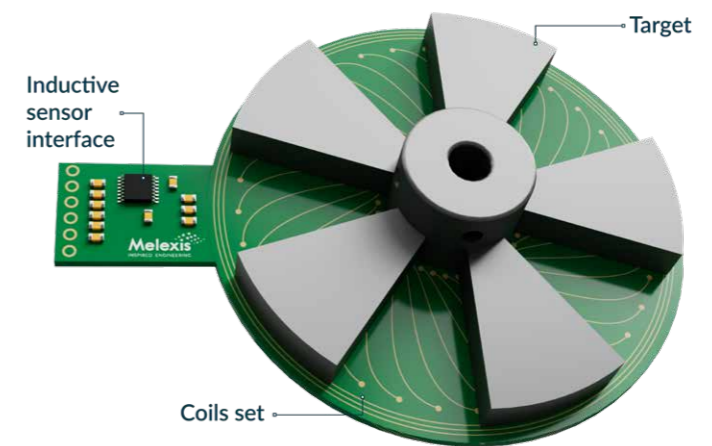| Part Number/Ordering Code	Status	Motions				Input range min - max	Rotor speed max	Rotor acceleration	Supply	Idd	Output			Operating temperature	Angular processing	Package	(A)SIL ready	Strayfield immunity ISO11452-8	AEC-Q100
		End-of-shaft (on-axis)	Through-shaft (off-axis)	Side-shaft (off-axis)	Linear	[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	√

Rotary (360°)
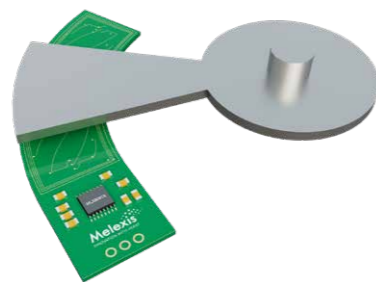
Arc
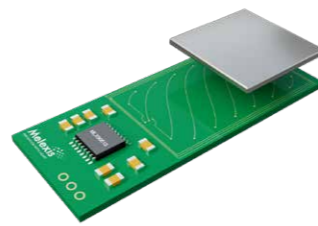
Linear (<30cm)

End of shaft

Through shaft

Side of shaft

TSSOP-16 (GO)

Target

Inductive sensor interface

Coils set

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