

# PACKAGES

	VISUAL APPEARANCE	GREEN COMPLIANCE
<b>THROUGH-HOLE PACKAGE</b>	 <p>UA Package TO92-3L flat      VA Package SIP 4L flat</p>	
<b>SURFACE MOUNT PACKAGE</b>	 <p>SE Package TSOT-3L      SE Package TSOT-5L</p>	
<b>CHIP SIZE PACKAGE</b>	 <p>LD Package UTQFN-6L</p>	



V2/29-11-17

**Melexis**  
INSPIRED ENGINEERING

### International Presence

**Contact Melexis:**

Europe, Middle East and Africa  
sales\_europe@melexis.com  
Tel. +32 13 67 04 95

Asia and Oceania  
sales\_asia@melexis.com  
Tel. +32 13 67 04 95

Americas  
sales\_usa@melexis.com  
Tel. +1 248 306 5400



-  Research & Development
-  Sales & Applications
-  Manufacturing



[WWW.MELEXIS.COM](http://WWW.MELEXIS.COM)

**Melexis**  
INSPIRED ENGINEERING

## SELECTION GUIDE LATCH & SWITCH

These products meet your demands to reduce power budget and space utilization, while also taking care of functional safety and system flexibility aspects.

The hammerhead shark is able to detect electronic signals of no more than half a billionth of a volt. The process uses specialized electroreceptors to detect and locate the source of an external electric field in its environment. What better animal to reflect our sensing capacities?

Latch and Switch Portfolio - 2 wire sensors																
Type	Status	Part No.	Typical Bop / Brp	TC	Ioff	Supply Voltage	Output Type	Package & pole active		Magnetic Polarity	Integrated protections				ICAP	ISO26262
			mT	ppm / °C	mA	V		TSOT	UA		RVP	OCL	TP	UVL		
2-wire Switch	Prod	MLX92241LUA-AAA-003	8 / 5	-1100	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92241LUA-AAA-004	9.2 / 7.2	0	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	-
	Prod	MLX92241LUA-AAA-005	9.2 / 7.2	0	3.3	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	-
	Prod	MLX92241LUA-AAA-006	8 / 5	-1100	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	Prod	MLX92241LUA-AAA-007	5.5 / 3.5	-1100	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	Prod	MLX92241LSE-AAA-008	17 / 15	0	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-011	5.5 / 3.5	-1100	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-012	5.5 / 3.5	-1100	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-013	9.2 / 7.2	0	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-014	9.2 / 7.2	0	3.3	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-015	9.2 / 7.2	-2000	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-016	5.5 / 3.5	-1100	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-017	9.2 / 7.2	-2000	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-AAA-018	9.2 / 7.2	-2000	3.3	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92241LSE-BAA-007	15 / 14	-1100	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A
	NEW	MLX92241LSE-BAA-019	9.2 / 7.2	0	3.3	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LUA-BAA-020	9.2 / 7.2	0	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A
	NEW	MLX92241LSE-BAA-021	9.2 / 7.2	0	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LSE-BAA-022	-8 / -5	-1100	3.3	2.7 - 24	Current source	N	Direct	Direct	✓	✓	✓	✓	-	A
	NEW	MLX92241LSE-BAA-023	-8 / -5	-1100	6	2.7 - 24	Current source	N	Direct	Direct	✓	✓	✓	✓	-	A
	NEW	MLX92241LSE-BAA-024	8.7 / 7.3	0	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LSE-BAA-025	-6 / -4	-1100	6	2.7 - 24	Current source	N	Direct	Direct	✓	✓	✓	✓	-	A
	NEW	MLX92241LUA-BAA-101	16 / 15	0	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LUA-BAA-102	3.2 / 2.8	-2000	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LUA-BAA-103	6 / 4	-1100	3.3	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LUA-BAA-104	8 / 7	-700	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LUA-BAA-106	4 / 2.7	0	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
	NEW	MLX92241LUA-BAA-107	3.9 / 3	-1100	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A
NEW	MLX92241LUA-BAA-108	7.9 / 5.3	-1100	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A	
NEW	MLX92241LUA-BAA-109	16 / 12	-1100	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A	
NEW	MLX92241LUA-BAA-110	7.9 / 5.3	-1100	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A	
NEW	MLX92241LUA-BAA-111	3.8 / 2.6	0	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A	
NEW	MLX92241LUA-BAA-112	-3.8 / 2.6	0	6	2.7 - 24	Current source	N	Inverted	Inverted	✓	✓	✓	✓	-	A	
NEW	MLX92241LUA-BAA-113	7.9 / 5.3	-1100	3.3	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A	
NEW	MLX92241LUA-BAA-114	7.9 / 5.3	-1100	6	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A	
NEW	MLX92241LUA-BAA-115	11 / 10	-2000	3.3	2.7 - 24	Current source	S	Inverted	Inverted	✓	✓	✓	✓	-	A	
2-wire Latch	NEW	MLX92221LSE-AAA-001	12 / -12	0	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	Prod	MLX92221LSE-AAA-002	6 / -6	-2000	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92221LSE-AAA-003	1.75 / -1.75	0	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92221LUA-AAA-004	6 / -6	-1100	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92221LUA-AAA-005	1.75 / -1.75	0	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92221LUA-AAA-006	0.8 / -0.8	0	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92221LUA-AAA-007	12 / -12	0	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92221LSE-BAA-008	4 / -4	0	3.3	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A
	NEW	MLX92221LUA-BAA-102	6 / -6	-2000	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A
	NEW	MLX92221LUA-BAA-105	1.8 / -1.8	0	6	2.7 - 24	Current source	S	Direct	Direct	✓	✓	✓	✓	-	A

Latch and Switch Portfolio - Dual hall sensors															
Type	Status	Part No.	Typical Bop / Brp	TC	Ioff	Supply Voltage	Output Type	Package & pole active		Integrated protections				ICAP	ISO26262
			mT	ppm / °C	mA	V		TSOT	VA	RVP	OCL	TP	UVL		
Dual hall Latch	Prod	MLX90224xVA-ABA-000	2.5 / -2.5	0	4.5	4.5 - 16	Open Drain	S	S					-	-
	Prod	MLX92251LSE-AAA-000	7.5 / -7.5	0	4.5	2.7 - 24	Dual Open Drain	S	S	✓	✓		✓	-	-
	Prod	MLX92251LSE-ABA-000	2.5 / -2.5	-1100	4.5	2.7 - 24	Dual Open Drain	S	S	✓	✓		✓	-	-

Latch and Switch Portfolio - 3 wire Switch																
Type	Status	Part No.	Typical Bop / Brp	TC	Ioff	Supply Voltage	Output Type	Package & pole active		Magnetic Polarity	Integrated protections				ICAP	ISO26262
			mT	ppm / °C	mA	V		TSOT	UA		RVP	OCL	TP	UVL		
3-wire Switch	NEW	MLX92231LSE-AAA-003	33 / 27	-2000	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-004	-5.5 / -3.5	-1100	3	2.7 - 24	Open Drain	N		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-005	26 / 20	-1100	3	2.7 - 24	Open Drain	N		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-007	26 / 20	-2000	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-009	3.5 / 2.5	0	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-010	10 / 8.5	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-011	40 / 34	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-012	15 / 12	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-013	3.5 / 2.5	0	3	2.7 - 24	Open Drain	S		Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-014	5.5 / 3.5	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-016	9.72 / 8.32	0	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-017	11.7 / 10.3	0	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-018	16.2 / 14.2	0	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-019	23 / 21	-2000	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LUA-AAA-020	3.5 / 2.5	0	3	2.7 - 24	Open Drain	S	S	Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-021	5.5 / 3.5	-1100	3	2.7 - 24	Open Drain	S		Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-022	10 / 8.5	-2000	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-023	43 / 41	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-025	50 / 48	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-026	23 / 21	-2000	3	2.7 - 24	Open Drain	S		Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-027	3.5 / 2.5	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-028	-3.5 / -2.5	-1100	3	2.7 - 24	Open Drain	N		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-029	15 / 14	-1100	3	2.7 - 24	Open Drain	S		Inverted	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-030	26 / 20	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-031	-13.5 / -8.5	0	3	2.7 - 24	Open Drain	N		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-032	23 / 21	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LSE-AAA-033	18 / 12.5	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-
	NEW	MLX92231LUA-AAA-034	5.5 / 3.5	-1100	3	2.7 - 24	Open Drain	S	S	Direct	✓	✓	✓	✓	-	-
NEW	MLX92231LUA-AAA-035	28.2 / 26	0	3	2.7 - 24	Open Drain	S	S	Inverted	✓	✓	✓	✓	-	-	
NEW	MLX92231LSE-AAA-036	26 / 24	-1100	3	2.7 - 24	Open Drain	S		Direct	✓	✓	✓	✓	-	-	
NEW	MLX92231LSE-AAA-038	27 / 26	-1100	3	2.7 - 25	Open Drain	S		Direct	✓	✓	✓	✓	-	-	
NEW	MLX92231LUA-AAA-039	13.5 / 8.5	0	3	2.7 - 24	Open Drain	S	S	Direct	✓	✓	✓	✓	-	-	
Prod	MLX92212LSE-ABA-000	12 / 10.5	0	2.2	2.5 - 5.5	Open Drain	S		Direct					-	-	
NEW	MLX92231LSE-ABA-004	-5.5 / -3.5	-1100	3	2.7 - 24	Open Drain	N		Direct	✓	✓	✓	✓	-	-	

Latch and Switch Portfolio - 3 wire Latch																
Type	Status	Part No.	Typical Bop / Brp	TC	Ioff	Supply Voltage	Output Type	Package & pole active		Integrated protections				ICAP	ISO26262	
			mT	ppm / °C	mA	V		TSOT	UA	RVP	OCL	TP	UVL			
3-wire Latch	Prod	MLX92211Lxx-AAA-000	3 / -3	-1100	3	2.7 - 24	Open Drain	S	S	✓	✓	✓	✓	-	-	
	Prod	MLX92211LSE-ACA-000	3 / -3	-2000	3	2.7 - 24	Open Drain	S	S	✓	✓	✓	✓	-	-	
	Prod	MLX92211Lxx-ADA-000	14 / -14	-2000	3	2.7 - 24	Open Drain	S	S	✓	✓	✓	✓	-	-	
	NEW	MLX92211Lxx-AEA-000	3 / -3	-1100	3	2.7 - 24	Open Drain	S	S	✓	✓	✓	✓	-	-	
	Prod	MLX92212LSE-AAA-000	2 / -2	0	2.2	2.5 - 5.5	Open Drain	S						✓	-	-
	NEW															