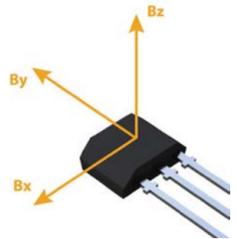
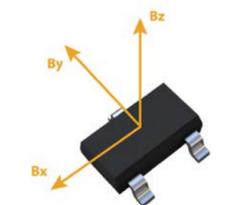
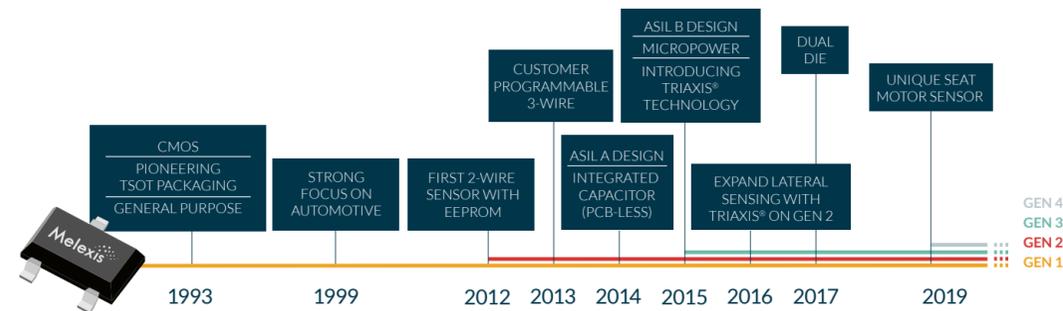


PACKAGES

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



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- Research & Development
- Sales & Applications
- Manufacturing



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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 (2) | Part No. | Typical Bop / Brp | TC | Ioff | Supply Voltage | Output Type | Package & pole active | Magnetic Polarity | ICAP | ISO26262 | Axis (1) |
|------|------------|---------------------|-------------------|----------|------|----------------|-----------------------------------|-----------------------|-------------------|------|----------|----------|
| | | | mT | ppm / °C | mA | V | | TSOT | UA | | | |
| Prod | | MLX92241LUA-AAA-003 | 8 / 5 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92241LUA-AAA-004 | 9.2 / 7.2 | 0 | 6 | 2.7 - 24 | Current source | S | Inverted | - | - | |
| Prod | | MLX92241LUA-AAA-005 | 9.2 / 7.2 | 0 | 3.3 | 2.7 - 24 | Current source | S | Inverted | - | - | |
| Prod | | MLX92241LUA-AAA-006 | 8 / 5 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92241LUA-AAA-007 | 5.5 / 3.5 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92241LSE-AAA-008 | 17 / 15 | 0 | 6 | 2.7 - 24 | Current source | S | Inverted | - | - | |
| Prod | | MLX92241LSE-AAA-011 | 5.5 / 3.5 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92241LSE-AAA-012 | 5.5 / 3.5 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92241LSE-AAA-013 | 9.2 / 7.2 | 0 | 6 | 2.7 - 24 | Current source | S | Inverted | - | - | |
| Prod | | MLX92241LSE-AAA-014 | 9.2 / 7.2 | 0 | 3.3 | 2.7 - 24 | Current source | S | Inverted | - | - | |
| Prod | | MLX92241LSE-AAA-015 | 9.2 / 7.2 | -2000 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92241LSE-AAA-016 | 5.5 / 3.5 | -1100 | 6 | 2.7 - 24 | Current source | S | Inverted | - | - | |
| Prod | | MLX92241LSE-AAA-017 | 9.2 / 7.2 | -2000 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92241LSE-AAA-018 | 9.2 / 7.2 | -2000 | 3.3 | 2.7 - 24 | Current source | S | Inverted | - | - | |
| UPD | | MLX92241LUA-AAA-028 | 20 / 18 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | A | |
| Prod | | MLX92241LSE-BAA-007 | 15 / 14 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | A | |
| Prod | | MLX92241LSE-BAA-019 | 9.2 / 7.2 | 0 | 3.3 | 2.7 - 24 | Current source | S | Inverted | - | A | |
| Prod | | MLX92241LUA-BAA-020 | 9.2 / 7.2 | 0 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | A | |
| Prod | | MLX92241LSE-BAA-021 | 9.2 / 7.2 | 0 | 6 | 2.7 - 24 | Current source | S | Inverted | - | A | |
| Prod | | MLX92241LSE-BAA-022 | -8 / -5 | -1100 | 3.3 | 2.7 - 24 | Current source | N | Direct | - | A | |
| Prod | | MLX92241LSE-BAA-023 | -8 / -5 | -1100 | 6 | 2.7 - 24 | Current source | N | Direct | - | A | |
| Prod | | MLX92241LSE-BAA-024 | 8.7 / 7.3 | 0 | 6 | 2.7 - 24 | Current source | S | Inverted | - | A | |
| Prod | | MLX92241LSE-BAA-025 | -6 / -4 | -1100 | 6 | 2.7 - 24 | Current source | N | Direct | - | A | |
| UPD | | MLX92241LUA-BAA-026 | 8.5 / 7.5 | -1100 | 6 | 2.7 - 24 | Current source | S | Inverted | - | A | |
| Prod | | MLX92241LSE-BAA-027 | 10 / 4 | -2000 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | A | |
| Prod | | MLX92241LSE-BAA-029 | 9.2 / 7.2 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | A | |
| NEW | | MLX92241LUA-BAA-030 | 8 / 5 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | A | |
| NEW | | MLX92241LUA-BAA-031 | 4 / 2.7 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | A | |
| NEW | | MLX92241LSE-BAA-032 | 5.5 / 3.5 | -1100 | 3 | 2.7 - 24 | Current source | S | Direct | - | A | |
| NEW | | MLX92241LUA-BAA-033 | 20 / 18 | -1100 | 6 | 2.7 - 24 | current source | S | Direct | - | A | |
| NEW | | MLX92241LSE-BAA-034 | 5.5 / 3.5 | -1100 | 6 | 2.7 - 24 | Current source | S | Inverted | - | A | |
| NEW | | MLX92241LSE-BAA-035 | 25 / 24 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | A | |
| UPD | | MLX92241LUA-BAA-101 | 17 / 15.4 | 0 | 6 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-102 | 3.2 / 2.8 | -2000 | 6 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-103 | 6 / 4 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-104 | 8 / 7 | -700 | 6 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-106 | 4 / 2.7 | 0 | 6 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-107 | 3.9 / 3 | -1100 | 6 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-108 | 7.9 / 5.3 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| Prod | | MLX92241LUA-BAA-109 | 16 / 12 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| Prod | | MLX92241LUA-BAA-110 | 7.9 / 5.3 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| Prod | | MLX92241LUA-BAA-111 | 3.8 / 2.6 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| Prod | | MLX92241LUA-BAA-112 | -3.8 / -2.6 | 0 | 6 | 2.7 - 24 | Current source | N | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-113 | 7.9 / 5.3 | -1100 | 3.3 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-114 | 7.9 / 5.3 | -1100 | 6 | 2.7 - 24 | Current source | S | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-115 | -8 / -5 | -1100 | 3.3 | 2.7 - 24 | Current source | N | Inverted | ✓ | A | |
| Prod | | MLX92241LUA-BAA-116 | 20 / 18 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| Prod | | MLX92221LSE-AAA-001 | 12 / -12 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92221LSE-AAA-002 | 6 / -6 | -2000 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92221LSE-AAA-003 | 1.75 / -1.75 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92221LUA-AAA-004 | 6 / -6 | -1100 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92221LUA-AAA-005 | 1.75 / -1.75 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92221LUA-AAA-006 | 0.8 / -0.8 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92221LUA-AAA-007 | 12 / -12 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | - | - | |
| NEW | | MLX92221LSE-AAA-009 | 1.75 / -1.75 | 0 | 3 | 2.7 - 24 | Current source | S | Direct | - | - | |
| Prod | | MLX92221LSE-BAA-008 | 4 / -4 | 0 | 3.3 | 2.7 - 24 | Current source | S | Direct | - | A | |
| NEW | | MLX92221LUA-BAA-010 | 11.8 / -11.8 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | - | A | |
| NEW | | MLX92221LUA-BAA-011 | 5 / -5 | -1100 | 3 | 2.7 - 24 | Current source | S | Direct | - | A | |
| NEW | | MLX92221LUA-BAA-101 | 10 / -10 | -400 | 3 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| Prod | | MLX92221LUA-BAA-102 | 6 / -6 | -2000 | 6 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| NEW | | MLX92221LUA-BAA-103 | 5 / -5 | -1100 | 3 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| Prod | | MLX92221LUA-BAA-105 | 1.8 / -1.8 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| NEW | | MLX92221LUA-BAA-107 | 11.8 / -11.8 | 0 | 6 | 2.7 - 24 | Current source | S | Direct | ✓ | A | |
| NEW | | MLX92221LSE-BAA-201 | 6 / -6 | -2000 | 6 | 2.7 - 24 | Current source | S | Direct | - | A | Bx |
| Prod | | MLX92223LUA-AAA-100 | -10 / 10 | 0 | 6 | 3.8 - 16 | Voltage controlled current source | N | Direct | ✓ | - | |

(1) If no sensitive axis are defined the sensor is sensitive in Bz
(2) NEW: New option code, UPD: Ordering information updated

Latch and Switch Portfolio - Dual hall sensors

| Type | Status (2) | Part No. | Typical Bop / Brp | TC | Idd | Supply Voltage | Output Type | Package & pole active | Axis (1) |
|------|------------|---------------------|-------------------|----------|-----|----------------|-------------------|-----------------------|----------|
| | | | mT | ppm / °C | mA | V | | TSOT | VA |
| Prod | | MLX90224EVA-ABA-000 | 2.5 / -2.5 | 0 | 7.5 | 4.5 - 16 | Speed & Speed | S | 2x Bz |
| Prod | | MLX92251LSE-AAA-000 | 7.5 / -7.5 | 0 | 4.5 | 2.7 - 24 | Speed & Direction | S | 2x Bz |
| Prod | | MLX92251LSE-ABA-000 | 2.5 / -2.5 | -1100 | 4.5 | 2.7 - 24 | Speed & Direction | S | 2x Bz |
| Prod | | MLX92255LSE-AAA-001 | 3 / -3 | -1800 | 5 | 2.7-5.5 | Speed & Speed+ fd | S | 2x Bz |
| Prod | | MLX92256LSE-AAA-000 | 2 / -2 | 0 | 3.5 | 3.8-24 | Pulse & Direction | S | Bz/Bx |
| Prod | | MLX92256LSE-ABA-000 | 2 / -2 | 0 | 3.5 | 3.8-24 | Speed & Speed | S | Bz/Bx |

Latch and Switch Portfolio - 3 wire Switch

| Type | Status (2) | Part No. | Typical Bop / Brp | TC | Idd | Supply Voltage | Output Type | Package & pole active | Magnetic Polarity | Axis (1) |
|------|------------|---------------------|-------------------|----------|-----|----------------|-------------|-----------------------|-------------------|----------|
| | | | mT | ppm / °C | mA | V | | TSOT | UA | |
| Prod | | MLX92231LSE-AAA-003 | 33 / 27 | -2000 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-004 | -5.5 / -3.5 | -1100 | 3 | 2.7 - 24 | Open Drain | N | Direct | |
| Prod | | MLX92231LSE-AAA-005 | 26 / 20 | -1100 | 3 | 2.7 - 24 | Open Drain | N | Direct | |
| UPD | | MLX92231LSE-AAA-007 | 26 / 20 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-009 | 3.5 / 2.5 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-010 | 10 / 8.5 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-011 | 40 / 34 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-012 | 15 / 12 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-013 | 3.5 / 2.5 | 0 | 3 | 2.7 - 24 | Open Drain | S | Inverted | |
| Prod | | MLX92231LSE-AAA-014 | 5.5 / 3.5 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-016 | 9.72 / 8.32 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-017 | 11.7 / 10.3 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-018 | 16.2 / 14.2 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-019 | 23 / 21 | -2000 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LUA-AAA-020 | 3.5 / 2.5 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-021 | 5.5 / 3.5 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Inverted | |
| Prod | | MLX92231LSE-AAA-022 | 10 / 8.5 | -2000 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-023 | 43 / 41 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-025 | 50 / 48 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-026 | 23 / 21 | -2000 | 3 | 2.7 - 24 | Open Drain | S | Inverted | |
| Prod | | MLX92231LSE-AAA-027 | 3.5 / 2.5 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-028 | -3.5 / -2.5 | -1100 | 3 | 2.7 - 24 | Open Drain | N | Direct | |
| Prod | | MLX92231LSE-AAA-029 | 15 / 14 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Inverted | |
| Prod | | MLX92231LSE-AAA-030 | 26 / 20 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-031 | -13.5 / -8.5 | 0 | 3 | 2.7 - 24 | Open Drain | N | Direct | |
| Prod | | MLX92231LSE-AAA-032 | 23 / 21 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-033 | 18 / 12.5 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LUA-AAA-034 | 5.5 / 3.5 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LUA-AAA-035 | 28.2 / 26 | 0 | 3 | 2.7 - 24 | Open Drain | S | Inverted | |
| Prod | | MLX92231LSE-AAA-036 | 26 / 24 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-038 | 27 / 26 | -1100 | 3 | 2.7 - 25 | Open Drain | S | Direct | |
| Prod | | MLX92231LUA-AAA-039 | 13.5 / 8.5 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-040 | 66 / 50 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-041 | 10.2 / 8.4 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-042 | 51 / 41 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-045 | 20 / 15 | 0 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-046 | 13 / 12 | -2000 | 3 | 2.7 - 24 | Open Drain | S | Direct | |
| Prod | | MLX92231LSE-AAA-204 | 6.5 / 5.5 | -1100 | 3 | 2.7 - 24 | Open Drain | S | Inverted | Bx |
| Prod | | MLX92212LSE-ABA-000 | 12 / 10.5 | 0 | 2.2 | 2.5 - 5.5 | Open Drain | S | Direct | |

Latch and Switch Portfolio - 3 wire Latch

| Type | Status (2) | Part No. | Typical Bop / Brp | TC | Idd | Supply Voltage | Output Type | Package & pole active | Axis (1) |
|------|------------|----------|-------------------|----|-----|----------------|-------------|-----------------------|----------|
|------|------------|----------|-------------------|----|-----|----------------|-------------|-----------------------|----------|