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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

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The snout of the platypus is a sensory organ with electroreceptors in the skin of the bill, which allow him to detect the electrical field that gets generated when his prey contracts its muscles. With his 40,000 sensitive electronic sensors, this unique semi aquatic egg-laying mammal represents our current sensors.

SELECTION GUIDE

CURRENT SENSORS

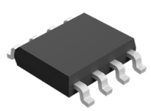
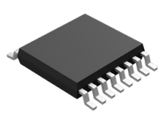
Our current sensors rely on cutting-edge implementation of Hall Effect technology for leading accuracy current monitoring in cars, domestic and industrial environments.

Current Sensors

Type	Status	Part No.	Grade	Temp	Supply Voltage	Supply Current	Output	Magnetic Saturation [2]	Sensitivity [1]		Programming Range	Programmable [Daughter Board] [3]	Package	Ratiometry	Bandwidth	Plate Polarity	Overvoltage / reverse polarity protection	Sensing Range	Voltage Isolation	
				°C	V	mA	Type	mT	mV/mT	mV/A	mV/mT				kHz		V		IEC-60950	UL-1577
IMC-HALL®	**EOL**	CSA-1VG	IC	-40...125 °C	5V +/-10%	11	Analog - Differential	10	280	-	-	-	SOIC8	✓	100	Direct	+ 6 / 0	B	-	-
	Prod	MLX91205KDC-AAL-003	IC	-40...125 °C	5V +/-10%	11	Analog - Differential	10	280	-	-	-	SOIC8	✓	100	Direct	+ 6 / 0	B	-	-
	Prod	MLX91205KDC-AAH-003	AIC	-40...125 °C	5V +/-10%	11	Analog - Differential	25	100	-	-	-	SOIC8	✓	100	Direct	+ 6 / 0	B	-	-
	Prod	MLX91206LDC-CAL-001	IC	-40...150 °C	5V +/-10%	7-9	Analog	10	580	-	460 - 700	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAL-002	IC	-40...150 °C	5V +/-10%	7-9	Analog	10	380	-	300 - 470	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAL-003	IC	-40...150 °C	5V +/-10%	7-9	Analog	10	250	-	200 - 310	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAH-001	AIC	-40...150 °C	5V +/-10%	7-9	Analog	25	270	-	210 - 330	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAH-002	AIC	-40...150 °C	5V +/-10%	7-9	Analog	25	170	-	130 - 220	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAH-003	AIC	-40...150 °C	5V +/-10%	7-9	Analog	25	110	-	80 - 140	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAH-004	AIC	-40...150 °C	5V +/-10%	7-9	Analog	25	77.5	-	60 - 110	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAH-005	AIC	-40...150 °C	5V +/-10%	7-9	Analog	25	65	-	65	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAH-021	AIC	-40...150 °C	5V +/-10%	7-9	Analog	25	270	-	210 - 330	Hall03	SOIC8	-	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91206LDC-CAH-104	AIC	-40...150 °C	5V +/-10%	7-9	PWM	25	2.2	-	0.5 - 5% DC/mT	Hall03	SOIC8	-	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91208LDC-CAL-000	AIC	-40...150 °C	5V +/-10%	12	Analog	10	250	-	100 - 700	Hall05	SOIC8	✓	250	Direct	+10 / -0.3	UB	-	-
	Prod	MLX91208LDC-CAH-000	AIC	-40...150 °C	5V +/-10%	12	Analog	25	100	-	50 - 300	Hall05	SOIC8	✓	250	Direct	+10 / -0.3	UB	-	-
	Prod	MLX91208LDC-CAV-000	AIC	-40...150 °C	5V +/-10%	12	Analog	60	40	-	30 - 200	Hall05	SOIC8	✓	250	Direct	+10 / -0.3	UB	-	-
	Prod	MLX91208LDC-CAV-001	AIC	-40...150 °C	5V +/-10%	12	Analog	60	60	-	30 - 200	Hall05	SOIC8	✓	250	Direct	+10 / -0.3	UB	-	-
CONVENTIONAL HALL	Prod	MLX91207LDC-CAA-005	AIC	-40...150 °C	5V +/-10%	9	Analog	-	25	-	15 - 45	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91207LDC-CAA-007	AIC	-40...150 °C	5V +/-10%	9	Analog	-	10	-	5 - 20	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91207LDC-CAA-015	AIC	-40...150 °C	5V +/-10%	9	Analog	-	25	-	15 - 45	Hall03	SOIC8	-	70	Direct	+20 / -10	UB	-	-
	Prod	MLX91209LVA-CAA-000	AIC	-40...150 °C	5V +/-10%	12	Analog	-	50	-	5 - 150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
	NEW	MLX91209LVA-CAA-001	AIC	-40...150 °C	5V +/-10%	12	Analog	-	15	-	5 - 150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
	NEW	MLX91209LVA-CAA-002	AIC	-40...150 °C	5V +/-10%	12	Analog	-	7.3	-	5 - 150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
	NEW	MLX91209LVA-CAA-003	AIC	-40...150 °C	5V +/-10%	12	Analog	-	19	-	5 - 150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
INTEGRATED PRIMARY	Prod	MLX91210KDC-CAS-101	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	80	-	-	SOIC8	✓	100	Direct	+10 / -0.3	B	2.1kVac	2.5kVac
	Prod	MLX91210KDC-CAS-102	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	40	-	-	SOIC8	✓	100	Direct	+10 / -0.3	B	2.1kVac	2.5kVac
	NEW	MLX91210KDC-CAS-104	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	32	-	-	SOIC8	✓	100	Direct	+10 / -0.3	B	2.1kVac	2.5kVac
	NEW	MLX91210KDC-CAS-105	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	66,7	-	-	SOIC8	✓	100	Direct	+10 / -0.3	B	2.1kVac	2.5kVac
	NEW	MLX91210KDC-CAS-106	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	50	-	-	SOIC8	✓	100	Direct	+10 / -0.3	B	2.1kVac	2.5kVac
	Prod	MLX91210KDF-CAS-101	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	80	-	-	SOIC16WB	✓	100	Direct	+10 / -0.3	B	2.5kVac	2.5kVac
	Prod	MLX91210KDF-CAS-102	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	40	-	-	SOIC16WB	✓	100	Direct	+10 / -0.3	B	2.5kVac	2.5kVac
	NEW	MLX91210KDF-CAS-103	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	26,7	-	-	SOIC16WB	✓	100	Direct	+10 / -0.3	B	2.5kVac	2.5kVac
	NEW	MLX91210KDF-CAS-104	IC	-40...125 °C	5V +/-10%	12	Analog	-	-	32	-	-	SOIC16WB	✓	100	Direct	+10 / -0.3	B	2.5kVac	2.5kVac

(1) Sensitivity at nominal supply voltage, can scale with ratiometry.

PACKAGES

	VISUAL APPEARANCE		GREEN COMPLIANCE
THROUGH-HOLE PACKAGE	 SIP4-VA		✓
SURFACE MOUNT PACKAGE	 SOIC8	 SOIC16WB	✓

Explanation

A =	*Automotive (AEC - Q100)*
I =	*Industrial*
C =	*Consumer*
U =	*Unipolar*
B =	*Bipolar*
SOIC16WB =	*SOIC16 Wide Body*
EOL =	*End of life*
Prod =	*In production*

(2) *(3)*

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