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Smart
Solutions
for **you!**

The Melexis logo is centered on a background of a complex circuit board pattern. The word "Melexis" is in a large, bold, black font, with "INSPIRED. ENGINEERING." in a smaller, all-caps font below it.

Melexis
INSPIRED. ENGINEERING.

Current Sensors

Smart
Solutions
for **you!**

IMC-HALL® Current Sensors																		
Product	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	Sensing Range	Voltage Isolation	
		°C	V	mA	Type	mT	mV/mT	mV/A		kHz			V	IEC-60950	UL-1577			
MLX91206LDC-CAL-001	IC	-40-150 °C	5V ±10%	7-9	Analog	10	580	-	460-700	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAL-002	IC	-40-150 °C	5V ±10%	7-9	Analog	10	380	-	300-470	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAL-003	IC	-40-150 °C	5V ±10%	7-9	Analog	10	250	-	200-310	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAH-001	AIC	-40-150 °C	5V ±10%	7-9	Analog	25	270	-	210-330	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAH-002	AIC	-40-150 °C	5V ±10%	7-9	Analog	25	170	-	130-220	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAH-003	AIC	-40-150 °C	5V ±10%	7-9	Analog	25	110	-	80-140	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAH-004	AIC	-40-150 °C	5V ±10%	7-9	Analog	25	77.5	-	60-110	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAH-005	AIC	-40-150 °C	5V ±10%	7-9	Analog	25	65	-	65	Hall03	SOIC-8	✓	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAH-021	AIC	-40-150 °C	5V ±10%	7-9	Analog	25	270	-	210-330	Hall03	SOIC-8	-	70	Direct	+20 / -10	UB	-	-
MLX91206LDC-CAH-104	AIC	-40-150 °C	5V ±10%	7-9	PWM	25	2.2	-	0.5 -5% DC/mT	Hall03	SOIC-8	-	70	Direct	+20 / -10	UB	-	-
MLX91208LDC-CAL-000	AIC	-40-150 °C	5V ±10%	12	Analog	10	250	-	100-700	Hall05	SOIC-8	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91208LDC-CAH-000	AIC	-40-150 °C	5V ±10%	12	Analog	25	100	-	50-300	Hall05	SOIC-8	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91208LDC-CAV-000	AIC	-40-150 °C	5V ±10%	12	Analog	60	40	-	30-200	Hall05	SOIC-8	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91208LDC-CAV-001	AIC	-40-150 °C	5V ±10%	12	Analog	60	60	-	30-200	Hall05	SOIC-8	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91216LDC-ACH-000	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	25	100	-	50-300	Hall05	SOIC-8	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91216LDC-ACV-000	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	60	40	-	30-200	Hall05	SOIC-8	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91216LDC-ACV-001	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	60	60	-	30-200	Hall05	SOIC-8	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91216LDC-ACV-002	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	60	30	-	30-200	Hall05	SOIC-8	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91216LDC-ACX-000	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	90	25	-	20-125	Hall05	SOIC-8	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-

(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	✓

IMC-HALL® Current Sensors																		
Product	Grade	Temp	Supply Voltage	Supply Current	Output Type	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			mV/mT	mV/A					kHz				V	IEC-60950
MLX91216LDC-ACX-001	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	90	30	-	20-125	Hall05	SOIC-8	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91216LDC-ACX-002	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	90	20	-	20-125	Hall05	SOIC-8	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91218LDC-ARV-303	AIC	-40-150 °C	3,3V ±10%	15	Analog	60	30	-	18-125	Hall05	SOIC-8	✓	400	Direct	+8 / -0.3	B	-	-
MLX91218LDC-ARX-300	AIC	-40-150 °C	3,3V ±10%	15	Analog	90	14	-	12-80	Hall05	SOIC-8	✓	400	Direct	+8 / -0.3	B	-	-
MLX91218LDC-ARV-500	AIC	-40-150 °C	5V ±10%	15.5	Analog	60	40	-	16-170	Hall05	SOIC-8	✓	400	Direct	+8 / -0.3	B	-	-

(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	

Conventional Hall Current Sensors																		
Product	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	kHz	V			IEC-60950	UL-1577				
MLX91207LDC-CAA-005	AIC	-40-150 °C	5V ±10%	9	Analog	-	25	-	15-45	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
MLX91207LDC-CAA-007	AIC	-40-150 °C	5V ±10%	9	Analog	-	10	-	5-20	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
MLX91207LDC-CAA-015	AIC	-40-150 °C	5V ±10%	9	Analog	-	25	-	15-45	Hall03	SOIC8	✓	70	Direct	+20 / -10	UB	-	-
MLX91209LVA-CAA-000	AIC	-40-150 °C	5V ±10%	12	Analog	-	50	-	5-150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91209LVA-CAA-001	AIC	-40-150 °C	5V ±10%	12	Analog	-	15	-	5-150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91209LVA-CAA-002	AIC	-40-150 °C	5V ±10%	12	Analog	-	7.3	-	5-150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91209LVA-CAA-003	AIC	-40-150 °C	5V ±10%	12	Analog	-	19	-	5-150	Hall05	SIP4-VA	✓	250	Direct	+10 / -0.3	UB	-	-
MLX91211LUA-ABA-500	AIC	-40-150 °C	5V ±10%	5	Analog	-	18,8	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABA-510	AIC	-40-150 °C	5V ±10%	5	Analog	-	25	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABA-520	AIC	-40-150 °C	5V ±10%	5	Analog	-	31,25	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABA-530	AIC	-40-150 °C	5V ±10%	5	Analog	-	50	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABA-540	AIC	-40-150 °C	5V ±10%	5	Analog	-	100	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABT-500	AIC	-40-150 °C	5V ±10%	5	Analog	-	18,8	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABT-510	AIC	-40-150 °C	5V ±10%	5	Analog	-	25	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABT-520	AIC	-40-150 °C	5V ±10%	5	Analog	-	31,25	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABT-530	AIC	-40-150 °C	5V ±10%	5	Analog	-	50	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABT-540	AIC	-40-150 °C	5V ±10%	5	Analog	-	100	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABA-500	AIC	-40-150 °C	5V ±10%	5	Analog	-	18,8	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-
MLX91211LUA-ABA-500	AIC	-40-150 °C	3,3V ±10%	5	Analog	-	17	-	-	-	T092-3L	✓	40	Direct	+6,5 / -0,3	B	-	-

(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	✓

Conventional Hall Current Sensors																		
Product	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
MLX91217LVA-ACA-000	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	-	10	-	5-150	Hall05	SIP4-VA	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91217LVA-ACA-001	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	-	15	-	5-150	Hall05	SIP4-VA	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91217LVA-ACA-002	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	-	17	-	5-150	Hall05	SIP4-VA	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91217LVA-ACA-003	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	-	9	-	5-150	Hall05	SIP4-VA	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91217LVA-ACA-005	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	-	13	-	5-150	Hall05	SIP4-VA	✓	250 (prog.)	Direct	+10 / -0.3	UB	-	-
MLX91219LVA-AAA-500	AIC	-40-150 °C	5V ±10%	10 / 12.5	Analog	-	7	-	4-105	Hall05	SIP4-VA	✓	400	Direct	+8 / -0.3	B	-	-
MLX91219LVA-AAA-501	AIC	-40-150 °C	5V ±10%	15,5	Analog	-	10	-	4-105	Hall05	SIP4-VA	✓	400	Direct	+8 / -0.3	B	-	-
MLX91219LVA-AAA-502	AIC	-40-150 °C	5V ±10%	15,5	Analog	-	15	-	4-105	Hall05	SIP4-VA	✓	400	Direct	+8 / -0.3	B	-	-
MLX91219LVA-AAA-300	AIC	-40-150 °C	5V ±10%	15,5	Analog	-	7	-	4-105	Hall05	SIP4-VA	✓	400	Direct	+8 / -0.3	B	-	-

(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	✓

Integrated Primary Current Sensors																	
Product	Grade	Temp	Supply Voltage	Supply Current	Output	Magnetic Saturation ⁽²⁾	Sensitivity ⁽¹⁾		Over-current detection	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				kHz	V	UL/IEC62368			
MLX91220KDC-ABF-025	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	80	27,8	-	SOIC8	-	300	Direct	+8 / -0.3	B	2,4KV
MLX91220KDC-ABF-050	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	40	55,6	-	SOIC8	-	300	Direct	+8 / -0.3	B	2,4KV
MLX91220KDC-ABR-020	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	100	22,2	-	SOIC8	✓	300	Direct	+8 / -0.3	B	2,4KV
MLX91220KDC-ABR-025	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	80	27,8	-	SOIC8	✓	300	Direct	+8 / -0.3	B	2,4KV
MLX91220KDC-ABR-030	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	66	33,7	-	SOIC8	✓	300	Direct	+8 / -0.3	B	2,4KV
MLX91220KDC-ABR-050	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	40	55,6	-	SOIC8	✓	300	Direct	+8 / -0.3	B	2,4KV
MLX91220KDC-ABF-117	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	120	14,8	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91220KDF-ABF-025	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	80	27,8	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91220KDF-ABF-050	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	40	55,6	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91220KDF-ABF-075	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	26,67	83,4	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91220KDF-ABR-025	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	80	27,8	-	SOIC16WB	✓	300	Direct	+8 / -0.3	B	4,8KV
MLX91220KDF-ABR-050	AIC	-40-125 °C	5V ±10%	20	Analog	-	-	40	55,6	-	SOIC16WB	✓	300	Direct	+8 / -0.3	B	4,8KV
MLX91220KDF-ABR-075	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	26,7	83,4	-	SOIC16WB	✓	300	Direct	+8 / -0.3	B	4,8KV
MLX91221KDC-ABF-025	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	50	25,1	-	SOIC8	-	300	Direct	+8 / -0.3	B	2,4KV
MLX91221KDC-ABF-050	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	25	57,0	-	SOIC8	-	300	Direct	+8 / -0.3	B	2,4KV
MLX91221KDC-ABR-020	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	62,5	20,1	-	SOIC8	✓	300	Direct	+8 / -0.3	B	2,4KV
MLX91221KDC-ABR-050	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	25	57,0	-	SOIC8	✓	300	Direct	+8 / -0.3	B	2,4KV
MLX91221KDF-ABF-010	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	120	10,0	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91221KDF-ABF-020	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	62,5	20,1	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV

(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	✓

Integrated Primary Current Sensors																	
Product	Grade	Temp	Supply Voltage	Supply Current	Output	Magnetic Saturation ⁽²⁾	Sensitivity ⁽¹⁾		Over-current detection	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				kHz	V	IEC-60950			
MLX91221KDF-ABF-025	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	50	25,1	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91221KDC-ABR-038	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	33,3	42,8	-	SOIC8	✓	300	Direct	+8 / -0.3	B	2,4KV
MLX91221KDF-ABR-050	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	25	57,0	-	SOIC16WB	✓	300	Direct	+8 / -0.3	B	4,8KV
MLX91221KDF-ABF-050	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	25	57,0	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91221KDF-ABF-075	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	16,67	85,6	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV
MLX91221KDF-ABR-020	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	62,5	20,1	-	SOIC16WB	✓	300	Direct	+8 / -0.3	B	4,8KV
MLX91221KDF-ABF-120	AIC	-40-125 °C	3,3V ±10%	20	Analog	-	-	62,5	28,0	-	SOIC16WB	-	300	Direct	+8 / -0.3	B	4,8KV

(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	✓