

V2/29-11-17



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



SELECTION GUIDE

FIR TEMPERATURE

If you want to measure accurately and contactless, you've come to the right place. We offer a broad range of solutions you can integrate into your systems to measure any temperature range.

Pit viper snakes have a cool heat sensing system to find prey in the dark. The pit is a special organ that senses body heats from animals and gives an infrared heat vision which accurately judges distance and size.

Non-contact temperature sensors portfolio: standard accuracy temperature detector

Type	Status	Part No.	Operating temp	Object temp	Factory calibrated accuracy	Supply Voltage	Supply current	Sleep current	Package	Dimensions (mm)		Field of View	Output Type
			°C	°C		V	mA	µA		TO-can	height		
Single pixel	Prod	MLX90614KSF-AAA-000	-40 to 125	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Dual pixel	Prod	MLX90614KSF-ABA-000	-40 to 125	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	120	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614KSF-ACC-000	-40 to 125	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel	Prod	MLX90614ESF-AAA-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Dual pixel	Prod	MLX90614ESF-ABA-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-ACA-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel	Prod	MLX90614ESF-BAA-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Dual pixel	Prod	MLX90614ESF-BBA-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCA-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-ACC-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCC-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-ACF-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	17,2	9,1	10	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCF-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	17,2	9,1	10	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCH-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	8,3	9,1	12	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCI-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	20,2	9,1	5	SMBus or PWM
Single pixel, gradient compensated	NEW	MLX90614ESF-ACK-000	-40 to 85	-70 to 380	+/-1C to +/-4C (see datasheet)	4.5-5.5	<2	<6	TO-39	8,1	10,2	15	SMBus or PWM
Single pixel, gradient compensated	NEW	MLX90614ESF-BCK-000	-40 to 85	-70 to 380	+/-1C to +/-4C (see datasheet)	2.6-3.6	<2	<6	TO-39	8,1	10,2	15	SMBus or PWM
Single pixel, gradient compensated	NEW	MLX90632SLD-BCB-000	-20 to 85	-20 to 200	+/-1C to +/-4C (see datasheet)	3.0-3.6	<1.4	<2.5	DFN	1	3x3	50	I2C

Non-contact temperature sensors portfolio: medical accuracy temperature detector

Type	Status	Part No.	Operating temp	Object temp	Factory calibrated accuracy	Supply Voltage	Supply current	Sleep current	Package	Dimensions (mm)		Field of View	Output Type
			°C	°C		V	mA	µA		TO-can	height		
Single pixel	Prod	MLX90614ESF-DAA-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCA-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCC-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCH-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	8,3	9,1	12	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCI-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	20,2	9,1	5	SMBus or PWM
Single pixel	Prod	MLX90615SSG-DAA-000	-40 to 85	-40 to 115	medical	2.6-3.4	<1.6	<3	TO-46	2,7	5,4	100	SMBus or PWM
Single pixel	Prod	MLX90615SSG-DAG-000	-40 to 85	-40 to 115	medical	2.6-3.4	<1.6	<3	TO-46	2,7	5,4	80	SMBus or PWM

Non-contact temperature sensors portfolio: multipixel arrays

Type	Status	Part No.	Operating temp	Object temp	Factory calibrated accuracy	Supply Voltage	Supply current	Sleep current	Package	Dimensions (mm)		Field of View	Output Type
			°C	°C		V	mA	µA		TO-can	height		
16x4 array	Prod	MLX90621ESF-BAA-000	-40 to 85	-40 to 300	see datasheet	2.5-3.3	<7	<9	TO-39	5,51	9,3	120x25	I2C
16x4 array	Prod	MLX90621ESF-BAB-000	-40 to 85	-40 to 300	see datasheet	2.5-3.4	<7	<9	TO-39	11,15	9,3	60x15	I2C
16x4 array	Prod	MLX90621ESF-BAD-000	-40 to 85	-40 to 300	see datasheet	2.5-3.5	<7	<9	TO-39	14,15	9,3	40x10	I2C
32x24 array	NEW	MLX90640ESF-BAA-000	-40 to 85	-40 to 300	see datasheet	2.9-3.6	<14	<15	TO-39	5,7	9,3	110x75	I2C
32x24 array	NEW	MLX90640ESF-BAB-000	-40 to 85	-40 to 300	see datasheet	2.9-3.6	<14	<15	TO-39	11,25	9,3	55x40	I2C

