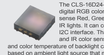
Optical Sensors

AN EYE FOR BRILLIANCE – UNDER ALL CONDITIONS

EVERLIGHT's family of Ambient Light Sensors provide cost efficient power-saving functions for state-of-the-art mobile devices. Besides a significant boost of operating time per battery charge,EVERLIGHT optical sensors also ensure better perception by actively supporting the automatic backlighting adjustment – e.g. in flat screens, ensuring top video quality under all lighting conditions. Inspired by the human eye's unique ability to adapt, Ambient Light Sensors are the key for the flexible adjustment of brightness and light settings according to the light conditions. Key applications for advanced EVERLIGHT photodetector components are TV sets and monitors, digital cameras, gaming consoles, commercial signboards and intelligent street lights that start operation exactly when it's needed – not a second before.

Ambient Light Sensor + Proximity Sensor + IR LED

		Sample ready		Sample ready		Sample ready
Product Name	APM-16D24-310-DF8/TR8		APS-16D24-311-DF6/TR8		ALS-DPDIC17-78C/L749/TR8	
Picture		The APM-16D24-310-DF8/TR8 is a digital output ambient light and proximity sensor with I2C interface and interrupt. It has a flexible and wide operating range for the ambient light sensor with a maximum resolution of 0.0023Lux-/count and a maximum detectable illumination of 57880Lux. The PS function has adjustable number of IR pulses from 1 to 256 and flexible IR LED driving current from 50mA to 200mA, to meet different application requirements. Furthermore it is equipped with a filter to reduce unwanted IR signals and noise comes from the environment.		The APS-16D24-311-DF6/TR8 is a digital output ambient light and proximity sensor with I2C interface and interrupt. It has a flexible and wide operating range for the ambient light sensor with a maximum resolution of 0.0023Lux-/count and a maximum detectable illumination of 83000Lux. The PS function has adjustable number of IR pulses from 1 to 256 and flexible IR LED driving current from 50mA to 200mA, to meet different application requirements. Furthermore it is equipped with a filter to reduce unwanted IR signals and noise comes from the environment.		The ALS-DPDIC17-78C/L749/TR8 is a digital output ambient light with I2C interface and interrupt. It has a flexible and wide operating range for the ambient light sensor with a maximum resolution of 0.0033Lux-/count and a maximum detectable illumination of 83000Lux. The ALS-DIP-DIC17-78C/L749/TR8 built-in an optical filter for IR rejection, and providing a spectrum which is close to the human eye's response. Dual-channel output (human eye and clear), so it has excellent light ratio under different light conditions.
Dimension(mm)	3.94*2.36*1.35		2.35*1.8*1.0		2.0*2.0*0.63	
Output	Digital		Digital		Digital	
Interface	I2C		I2C		I2C	
Resolution	16bits ALS / 12bits Proximity		16bits ALS / 12bits Proximity		16bits ALS	
Supply Voltage	2.4 ~ 3.6V		2.4 ~ 3.6V		2.4 ~ 3.6V	
Supply Current	160μA		160μA		160μA	
Shutdown Current	1.5uA		1.5uA		1.5uA	
Interrupter Function	YES		YES		YES	
Ambient light sensing	YES		YES		YES	
Detection Range	0.0023 ~ 57,880lx		0.0033 ~ 83,000lx		0.0033 ~ 83,000lx	
Proximity sensing function	YES		YES		N/A	
IR LED driving current operation range	50 ~ 200mA		50 ~ 200mA		N/A	
Application	Backlight Dimming / Smartphone / Tablet PC / Digital Light Management		Backlight Dimming / Smartphone / Tablet PC / Digital Light Management		Backlight Dimming / Smartphone / Tablet PC / Digital Light Management	

			Sample ready
Product Name	EAALSDIC2012A2	EAALSDSY6444xx	CLS-16D24-44-DF8/TR8
Picture	The ALS-PDIC17-77B/TR8 is consisting of a photodiode and a current amplification IC. EVERLIGHT ALS series product is a good effective solution to the power saving of display backlighting of mobile appliances, such as the mobile phones, NB and PDAs. Due to the high rejection ratio of infrared radiation, the spectral response of the ambient light sensor is close to that of human eyes.microcontroller utilization.	ALS-PD70-01C/L664/TR7 Ambient Light Sensor Device, consisting of a photodiode in miniature SMD package, which is molded in water clear with flat top. Due to the high rejection ration of infrared radiation, the spectral response of the ambient light sensor is close to that of human eyes. It is a good effective solution for power saving of display backlighting, as well as light receiver for heart rate monitors.	 The CLS-16D24-44-DF8/TR8 is a digital RGB color sensor that can sense Red, Green, Blue, Clear and IR lights. It can communicate via I2C interface. Thanks to RGBW and IR color sensing, the brightness and color temperature of backlight can be adjusted based on ambient light source that makes the panel look more comfortable for human eyes. The CLS features are ideal for reducing power consumption and adjusting brightness of display equipments like LCD, PDP, LED, virtual keyboard and portable projector, etc.
Dimension(mm)	1.6*1.6*0.55	4.4 * 3.9 * 1.2	2.0 * 2.0 * 0.63
Output	60uA@3V , 100lux	0.25uA @5V , 100lux	Digital
Interface	Current output	Current output	I2C
Resolution	N/A	N/A	16bits R/G/B/W/IR
Supply Voltage	1.8 ~5.5V	2.5 ~ 5.5V	2.4 ~ 3.6V
Supply Current	480uA@3V , 1000lux	2.5uA @5V, 1000lux	210μA
Shutdown Current	100nA	1nA	2.5μA
Interrupter Function	N/A	N/A	YES
Ambient light sensing	YES	YES	YES
Detection Range	0 ~ 10,000lx	0 ~ 10,000lx	0.001 ~ 204,679lx
Proximity sensing function	N/A	N/A	N/A
IR LED driving current operation range	N/A	N/A	N/A
Application	Smartphone/ Tablet PC/ Backlight Dimming	Smartphone / Tablet PC / Backlight Dimming / Wearable Devices	Backlight Dimming / Smartphones / Notebooks / Digital Light Management / Color Correction

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Infrared LED

A CLEAR SIGNAL OF QUALITY

The possible field of application for high-quality infrared components reflects the high grade of today's technical progress and individuality – so does the impressive portfolio of EVERLIGHT infrared LED. It offers a wide choice of package designs for infrared emitting diodes, photodiodes, phototransistors or Photo ICs. Serving all common standard packages like SMD, DIP, PLCC or plastic housings, EVERLIGHT provides you with excellent solutions that fit a wide range of requirements – for a broad variety of applications. The perfect source of inspiration for engineering creativity!

Infrared Components

IR

Product Name	EAISV1608xx	EAISV3024xx	EAISV3026xx	EAISV4228xx	EAISV3210xx
Product picture					
Package and Description	Side view	Side view	Side view	Side view	SMD LED with dual wavelength
Dimension(mm)	1.6*1.52*0.8	3*2.43*1	3.0*2.65*1.2	4.2x2.8x3.0	3.2*2.7*1.1
Peak Wavelength(nm)	940nm	940nm	940nm	940nm	660nm/905nm, 660nm/940nm
View Angle	100(X)40(Y)	130(X)20(Y)	30	75(X)40(Y)	120
Output Intensity @IF=20mA	4.0mW/sr	8mW/sr	5mW/sr	11mW/sr	1.5/0.5mW/sr , 2.3/2.1mW/sr

IR

Product Name	EAIST6048A0	EAIST2516RGA0	EAIST3528xx	EAIST3535xx	EAIST3535xx
Product picture					
Package and Description	Top view	Top view	Top view	High Power Infrared LED	High Power Infrared LED
Dimension(mm)	6.0*4.8*1.1	2.5*1.6*0.55	3.5*2.8*3.0	3.5*3.5*2.36	3.5*3.5*2.36
Peak Wavelength(nm)	660nm/905nm	525nm/660nm/940nm	850nm	850nm	850nm
View Angle	125(X)145(Y)	120	5	90	150
Output Intensity @IF=20mA	1.6/0.9mW/sr	min:1200mcd/ 150mcd/1.5mW/sr	55mW/sr@70mA)	790mW@(1000mA)	790mW@(1000mA)

PD/PT

Product Name	EAPDSV1608xx	EAPDSV3243xx	EAPSV3026A0	EAPDSV4239A0
Product picture				
Package and Description	Side view	Side view	Side view	Side view
Dimension(mm)	1.6x0.8x1.52	3*2.43*1	3.0*2.65*1.2	4.2*3.9*2.8
Peak Wavelength(nm)	940nm	940nm	940nm	940nm
Output Current	2.4uA	2μA	4mA	25μA

PD/PT

				Sample ready
Product Name	EAPDST3227A1	EAPDST5140xx	EAPDST6048A0	EAISV1608xx
Product picture				
Package and Description	SMD package, Photodiode	Top view	SMD package, Photodiode	Top view
Dimension(mm)	3.2*2.7*1.1	5.1x4.0x0.85	6.0*4.8*1.1	4.4x3.7x0.55
Peak Wavelength(nm)	940nm	940nm	940nm	940nm
Output Current	6.5μA	30μA	37μA	42μA

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Infrared Receiver Modules.

READY FOR YOUR ORDERS

Power pack: assembled in one infrared bandpass package, EVERLIGHT's Infrared Receiver Modules couple the performance of a PIN diode receiver with the power of a preamplifier. The demodulated output signal can be directly decoded by a single microprocessor. The EVERLIGHT IRM product series fully support all major transmission codes and frequencies. That's why IRM devices are frequently used in top-selling audio-video equipments comfortably operated by comprehensive remote controls.

Infrared Receiver Modules

IRM- M3 series

Product Name	EAIRMAxx EAIRMBxx	EAIRMCxx	EAIRMBxx	EAIRMGxx	EAIRMAA2	EAIRMxx	EAIRMJxx EAIRMMxx	EAIRMGxx	EAIRMLxx
Picture									
Dimension(mm)	8.25*6.0*5.6	6.27*4.36*3.1	15.1*10.2*8.4	5.1*4.6*1.45	5.30*2.90*3.65	5.0*4.0*4.0	6.6*3.0*3.2	5.1*4.0*2.0	5.3*3.8*2.65
Code Application	Matsushita NEC JVC RC5 RC6 Toshiba Sharp Zenith								
Carrier Freq	36 KHz 38 KHz 56 KHz		38 KHz	36 KHz 38 KHz 56 KHz		38 KHz	36 KHz 38 KHz 56 KHz		
Supply Voltage (V)	2.7-5.5								
Current Consumption (mA)	0.4								

IRM- M series

Product Name	EAIRMAxx EAIRMBxx	EAIRMxx	EAIRMJxx EAIRMMxx	EAIRMLxx
Picture				
Dimension(mm)	8.25*6.0*5.6	5.0*4.0*4.0	6.6*3.0*3.2	5.3*3.8*2.65
Code Application	JVC Matsushita Mitsubishi RCMM RCA XMP R-step RC5_80 NEC Panasonic RC5 RC6 Sharp			
Carrier Freq	36 KHz 38 KHz			
Supply Voltage (V)	2.7-5.5			
Current Consumption (mA)	0.4			

IRM- M2 series

Product Name	EAIRMDA0
Picture	
Dimension(mm)	9.2*6.8*6
Code Application	JVC Mitsubishi RC5 RC6 NEC Sharp Sony 12 Bit Sony 15 Bit Sony 20 Bit Continuous
Carrier Freq	38 KHz
Supply Voltage (V)	2.7~5.5
Current Consumption (mA)	0.4

IRM - Z3 series

Product Name	EAIRMAxx EAIRMBxx
Picture	
Dimension(mm)	8.25*6.0*5.6
Code Application	JVC RC5-80 Mitsubishi NEC Panasonic RC5 RC6 RCMM Sharp Sony 12 Bit Sony 15 Bit XMP-1 ADHA
Carrier Freq	38 KHz
Supply Voltage (V)	2.7-5.5
Current Consumption (mA)	0.25-0.5mA

Wide Band

Product Name	EAIRMIA3
Picture	
Dimension(mm)	5.0*4.0*4.0
Carrier Freq	20~60KHz
Supply Voltage (V)	2.7-5.5
Current Consumption (mA)	0.4-0.5mA

IRM - J7 series

Product Name	EAIRMBxx
Picture	
Dimension(mm)	8.25*6.0*5.6
Carrier Freq	38KHz
Supply Voltage (V)	2.7-5.5
Current Consumption (mA)	0.5-0.8mA

Infrared Components

ITR

Transmissive Type

Sample ready

Product Name	EAITRAA1	EAITRBA4	EAITRDA0	EAITRAA0	ITR1604CT50A/TB
Product picture					
Dimension(mm)	3.1*2.0*2.75	6.4*4.2*5.4	14.0*6.0*10.0	7.5*2.6*6.3	27.2*10*16.1
VF_Typ (V)	1.2	1.2	1.2	1.18	1.25
VF_Max (V)	1.4	1.6	1.5	1.4	1.5
VCE(SAT)_Max (V)	0.4	0.4	0.4	0.4	0.4
IC(ON)_Min (mA)	0.15	0.2	0.5	0.25	0.25
Gap Distance (mm)	1.1	3	5	5	5

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ITR

Reflective Type

Product Name	EAITRAAx	EAITRAAx	EAITRAA2	EAITRBA0	EAITRDAx
Product picture					
Dimension(mm)	1.9*1.4*0.6	3.4*2.7*1.5	4*3*2	6.4*4.9*6.5	8.7*4.5*5.9
VF_Typ (V)	1.25	1.2	1.2	1.2	1.2
VF_Max (V)	1.5	1.4	1.4	1.5	1.5
VCE(SAT)_Max (V)	0.4	0.4	0.4	0.4	0.4
IC(ON)_Min (mA)	0.27	0.1	0.06	0.2	0.2
Detecting Distance (mm)	1mm	1mm	3-5mm	5~10mm	5~10mm

Photo Couplers

COMBINING PERFORMANCE WITH EFFICIENCY

In order to provide the best fit for your demand, EVERLIGHT photocouplers come in a wide range of established SOP and DIP chip carrier types. Powerful input functions cover DC sensing, DC threshold sensing or AC sensing. Optional output functions are transistor, darlington, triac, Schmitt trigger or high speed transistor.

EVERLIGHT optocouplers are designed for the use in low-bandwidth, general switching applications and in high-voltage applications for AC load switching. Common end products featuring photocouplers include appliances, temperature controls, air conditioners (HVAC), vending machines, lighting controls, battery chargers and isolated power supplies.

High Speed Coupler

High Speed Coupler 1M bps

Product Name	6N135 6N136	EL4502 EL4503	EL4504	EL0500 EL0501	EL0452 EL0453	ELM452 ELM453	ELW135 ELW136
Picture							
Dimension(mm)	9.76*6.6*3.5	9.76*6.6*3.5	9.76*6.6*3.5	4.88*3.92*3.18	4.88*3.92*3.18	4.4*4.1*2	11.15*9*3.9
CTR	7~50% 19~50%	19~50%	25~60%	7~50% 19~50%	19~50%	20~50%	7~50% 19~50%
CMR	1000	1000 15000	15000	1000	1000 15000	5000 15000	1000
Vcc (V)	30						
Io (mA)	8						
Applications	· Line receivers · Telecommunication equipments · Power transistor isolation in motor drives · Replacement for low speed phototransistor photo couplers				· Feedback loop in switch-mode power supplies · Home appliances · High speed logic ground isolation		

High Speed Coupler 10M bps

Product Name	6N137	EL0600/0601 EL0611	ELM600/M601 ELM611	ELW137 ELW2601 ELW2611	EL2630 EL2631	EL0630 EL0631
Picture						
Dimension(mm)	9.76*6.6*3.5	4.88*3.92*3.18	4.4*4.1*2	11.15*9*3.9	9.76*6.6*3.5	4.88*3.92*3.18
CMR	1000	5000 10000	5000 20000	5000 10000	5000 10000	5000 10000
Vcc (V)	7					
Io (mA)	50					
Applications	· Ground loop elimination · LSTTL to TTL, LSTTL or 5 volt CMOS · Line receiver, data transmission · Data multiplexing			· Switching mode power supply · Pulse transformer replacement · Computer peripheral interface		

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High Speed Coupler 15M bps / High Speed Coupler 5M bps

Product Name	EL083L	ELM81L	EL2200 EL2201 EL2202
Picture			
Dimension(mm)	4.88*3.92*3.18	4.4*4.1*2	9.76*6.6*3.5
CMR	10000		1000
Vcc (V)	3.3		20
Io (mA)	20		25
Applications	· Line receiver, data transmission · Data multiplexing · Switching power supplies · Pulse transformer replacement · Computer peripheral interface · High speed logic ground isolation		Ground Loop Elimination · LSTTL to LSTTL or CMOS · Line Receiver, Data Transmission · Isolated Bus Driver · Pulse Transformer Replacement · Microprocessor System Interface · Computer Peripheral Interface · High Speed Logic Ground Isolation

Photo Coupler

Product Name	EL101X-G	EL111X-G	EL617	EL817	EL121N	EL357N	EL3H7	CNY65
Picture								
Dimension(mm)	7.6*3.6*2.2	7.6*3.6*2.2	6.6*4.68*3.5	6.5*4.58*3.5	4.4*3.6*2.0	4.4*4.1*2.0	4.4*2.7*2.0	13.64*9.74*6.01
Vf_Typ (V)	1.45	1.45	1.2	1.2	1.2	1.2	1.2	1.6
Rise/ Fall Time (µs)	2/3	2/3	4/3	4/3	3/4	3/4	5/3	3/5
BVCEO_Min(V)	80V	80V	80V	35V	80V	80V	80V	80V
Viso (Vrms)	5000V	5000V	5000V	5000V	3750V	3750V	3750V	10000V
CTR Rank	50~600% (IF=5mA, Vce=5V)	50~600% (IF=5mA, Vce=5V)	50~600% (IF=5mA, Vce=5V)	50~600% (IF=5mA, Vce=5V)	50~600% (IF=5mA, Vce=5V)	50~600% (IF=5mA, Vce=5V)	50~600% (IF=5mA, Vce=5V)	50~300% (IF=5mA, Vce=5V)
VCE(SAT)_Max(V)	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.3
Application	· Power supply · Programmable controllers · Measuring instruments · Telecommunication equipments · Home appliances · Signal transmission between circuits of different potentials and impedances		· Telephone set · Telephone exchangers · Sequence controllers		· Programmable controllers · System appliances, measuring instruments · Telecommunication equipments · Home appliances, such as fan heaters, etc. · Signal transmission between circuits of different potentials and impedances. · DC-DC Converters			· Switch mode power supply · Line receiver · Computer peripheral interface · Microprocessor system interface

Product Name	EL827	EL847	EL852	EL452	EL357L	EL8171	EL814	EL354N
Picture								
Dimension(mm)	9.76*6.5*3.5	19.82*6.5*3.5	6.5*4.58*3.5	4.4*4.1*2	7.6*3.6*2.2	6.5*4.58*3.5	6.5*4.58*3.5	4.4*4.1*2
Vf_Typ (V)	1.2	1.2	1.2	1.2	1.45	1.2	1.2	1.2
Rise/ Fall Time (µs)	3/4	4/3	300/100	80/10	7/8	6/8	7/11	6/8
BVCEO_Min(V)	80V	80V	350V	350V	80V	70V	80V	80V
Viso (Vrms)	5000V	5000V	5000V	3750V	5000V	5000V	5000V	3750V
CTR Rank	50~600% (IF=5mA, Vce=5V)	50~600% (IF=5mA, Vce=5V)	1000~15000% (IF=1mA , Vce=2V)	1000 min. (IF=1mA , Vce=2V)	60~300% (IF=1mA, Vce=5V)	100~350% (IF= 0.5mA Vce = 5V)	20~300% (IF=±1mA ,Vce=5V)	20~300% (IF=±1mA ,Vce=5V)
VCE(SAT)_Max(V)	0.2	0.2	1.2	1.5	0.4	0.2	0.2	0.2
Application	· Programmable controllers · System appliances, measuring instruments · Telecommunication equipments · Home appliances, such as fan heaters, etc. · Signal transmission between circuits of different potentials and impedances		· Telephone set, telephone exchangers · Sequence controllers · System appliances, measuring instruments · Signal transmission between circuits of different potentials and impedances		· Power supply / Programmable controllers · Measuring instruments · Telecommunication equipments · Home appliances · Telephone set / Telephone exchangers · Sequence controllers · Signal transmission between circuits of different potentialsand impedances		· AC line monitor · Programmable controllers · Telephone line interface · Unknown polarity DC sensor	

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Photo Triac

Zero Cross Type / Random Phase Type

Product Name	EL304X/306X/308X	ELT304X/T306X/T308X	ELM304X/M306X/M308X	EL302X/305X	ELT302X/T305	ELM302X/M305X
Picture						
Dimension(mm)	7.12*6.5*3.5	6.5*4.28*3.5	4.4*4.1*2.0	7.12*6.5*3.5	6.5*4.58*3.5	4.4*4.1*2.0
Key Spec.	VDRM=400, 600, 800V IFT= 5, 10, 15mA		VDRM=400, 600, 800V IFT= 3, 5, 10mA	VDRM=400, 600V IFT= 5, 10, 15mA		VDRM=400, 600V IFT= 3, 5, 10mA
Viso(Vrms)	5000		3750	5000		3750
IF(mA)	60			60		
Applications	· Light controls · Static power supply · Temperature controls		· AC motor starters · Solid state relays	· Solenoid/valve controls · Lamp ballasts · Static AC power switch · Interfacing microprocessors to 115 to 240Vac peripherals		· Incandescent lamp dimmers · Temperature controls · Motor controls

Power Photo Triac

Product Name	ELR0223	ELR1223	ELR2223	ELR3223
Picture				
Dimension(mm)	9.76x6.6x3.5			
ON-state current IT (rms)(A)	0.3	0.6	0.9	1.2
Repetitive peak OFF-state voltage VDRM (V)	600			
Isolation voltage (AC)Viso (rms)	5000			
Min. trigger current IFT (mA)	10 (VDRM=6V, RL=100Ω)			

Solid State Relay

Product Name	EL440A	EL640A	EL840A	ELM440A
Picture				
Dimension(mm)	6.5*4.58*3.5	7.12*6.5*3.5	9.76x6.6x3.5	4.4*4.1*2.0
Output type	Normally Open 1a	Normally Open 1a	Normally Open 2a	Normally Open 1a
Load Voltage (V)	60 / 250 / 400 / 600	60 / 250 / 400 / 600	400 / 600	400
Load Current (mA)	550 / 180 / 120 / 50	550 / 180 / 120 / 50	120 / 50	120
Ron Typ.(Ω)	0.75 / 6.5 / 20 / 40	0.75 / 6.5 / 20 / 40	20 / 40	20
Ron max. (mA)	5	3	5	5
Viso (Vrms)	5000	5000	5000	3750

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