

Photointerrupters

EA31, EA32, EA33

Electro-Optical Specifications (Ta = 25°C)

Input (IRLED)	
Forward voltage (at 30mA)	1.2V Typ., 1.5V Max

Output (Phototransistor)	
Dark current (Vce=10V, If=0)	100nA

Coupled (IRLED/PT)	
Light current (at 20mA, Vce=5V):	0.5mA Min.
Rise Time, Tr (10% to 90%) 5μS (Vce=5V Ic=2mA RL=100 Ohm)	
Fall Time, Ff (90% to 10%) 5μS (Vce=5V Ic=2mA RL=100 Ohm)	

Absolute Maximum Ratings (Ta = 25°C)

Input (IRLED)	
Power Dissipation	80mW
Continuous forward current	60mA
Reverse voltage	5.0V
Reverse Current (Vr=4.0V)	10μA

Output (Phototransistor)	
Power Dissipation	100mW
Collector to Emitter voltage (Vceco)	30V
Emitter to Collector voltage (Vbeco)	6V

Coupled (IRLED/PT)	
Operating temperature	-20°C +85°C
Storage temperature	-25°C +100°C
Maximum lead soldering temperature (5mm from body) 260°C for 5 seconds	

