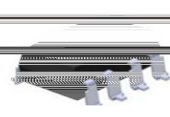


1. Features
 - (1) Low V_{CE} supply voltage
 - (2) Low power consumption
 - (3) High speed: 15MBd(typical)
 - (4) V_{CEM}=1000V, and the lowest common mode inhibition (CMR) is 10 kV/μs.
 - (5) -40 °C ~ +110 °C temperature of AC and DC performance.
 - (6) Safety approval
 - UL approved (No.8323844)
 - VDE approved (No.40729738)
 - CQC approved (No.CQC11.00012175)
 - (7) In compliance with RoHS, REACH standards
 - (8) MSL Class I

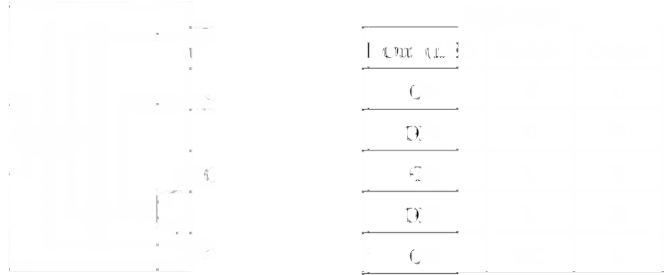


OR-6N137 is made up of an efficient LED and a high-speed optical detector. This design provides good ac and dc isolation between the input and output ends of the photoelectric coupler. The output characteristic curve shows excellent conversion operation, excellent linearity, consistent stability, and good readability. The photoelectric coupler operating temperature range is -40 °C ~ +110 °C.

FUNCTIONAL BLOCK

2. AC/DC, D/A converted signal signal isolation
3. eliminate noise from the ground loop
4. switching power supply
5. interface of microprocessor system, computer and peripheral equipment.

6. Functional Diagram



- NC 5. GND
- Anode 6. Output
- Cathode 7. V_E(Enable)
- NC 8. V_{CC}

9. OR-6N137 bypass capacitance should be connected between pins 1 and 2

5. Absolute Maximum Ratings ($T_a=25^{\circ}\text{C}$)

	Parameter	Symbol	Rated Value	Unit
Input	Average Forward Input Current	I_F	20	mA
	Reverse Input Voltage	V_R	5	V
	Power Dissipation	P_r	40	mW
	Enable Input Voltage	V_E	VCC+0.5	V
	Enable Input current	I_E	5	mA
Output	Output Collector Current	I_O	50	mA
	Output Collector Voltage	V_O	7	V
	Output Collector Power Dissipation	P_O	85	mW

