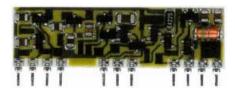
IRD1

Infrared Pulse Detector



General description

The IRD1 is an hybrid circuit that allows to realize an infrared barrier when utilized with an infrared pulse transmitter (IRT1).

IRD1 detect IR pulses and activate the output signal when the barrier is interrupted by an object.

It shows stable electric characteristics thanks to the

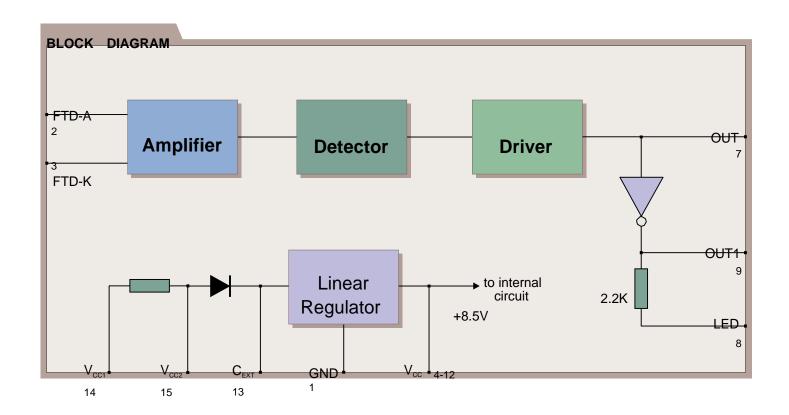
"Thick film hybrid" tecnhology.

Features

- High RFI Immunity
- SIL Package

Applications

- Residential and commercial security systems
- Automatic doors opening systems



Electrical Characteristics

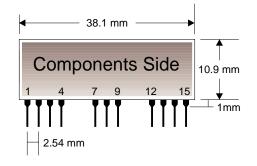
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	CHARACTERISTICS	MIN	TYP	MAX	UNIT
V_{cc1}	Supply Voltage	18	24	32	VDC/VAC
V_{cc2}	Supply Voltage	9	12	18	VDC/VAC
Is	Supply Current		3		mA
F _{IR}	Infrared Pulse Frequency	300	400		Hz
I_{o}	I _○ Out Sink Current			20	mA
T _{OP}	Operating Temperature Range	-20		+80	°C

Pin Description

Mechanical Dimensions

1	GND	Ground
2	FTD-A	Photodiode Anode
3	FTD-K	Photodiode Katode
4-12	Vcc	Supply Voltage of Internal Stage
7	Out	Output Signal (Low if impulse received)
8	IFD	Led Control Signal
9	Out1	Output Signal (High if impulse received)
13	CEXT	External Filter Capacitor
14	Vcc1*	24V DC/AC Supply Voltage
15	Vcc2*	12V DC/AC Supply Voltage



^{*} Only one power supply voltage is necessary (12 or 24 V)

