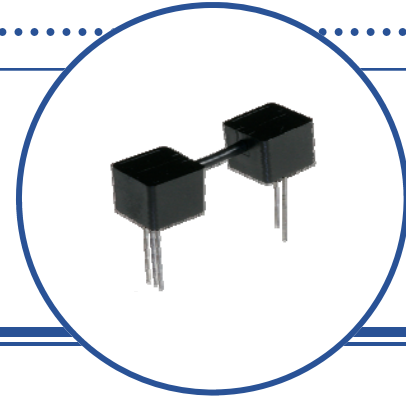


 TT electronics
OPTEK Technology

- Opaque plastic housings
- High noise immunity
- Visible Red LED with Phototransistor Output
- 0.05" (1.27 mm) lead spacing
- Data Transfer through plastic fiber optic cable
- Isolation voltage 15 KV (OPI1290-032), Longer versions higher

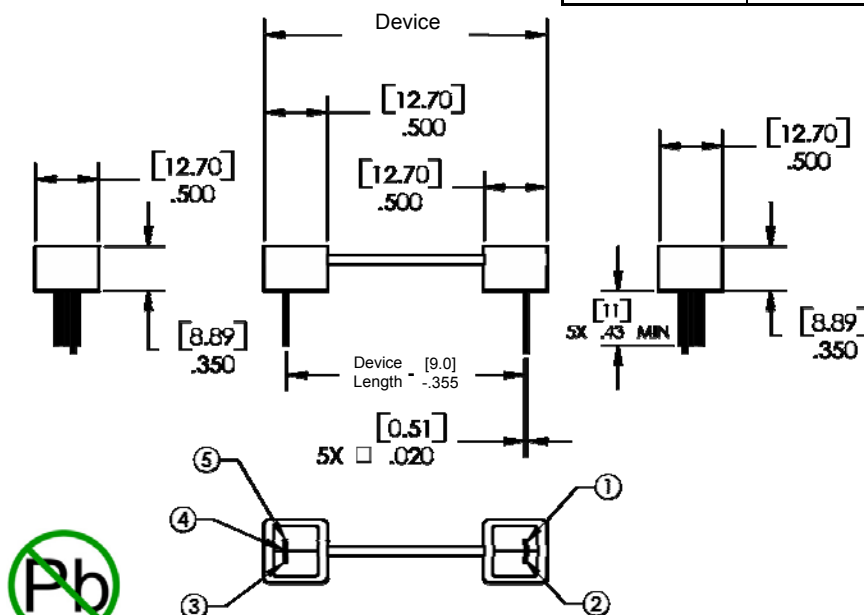


Each **OPI1290** consists of a visible Red LED and a Photologic® Totem-Pole output sensor, which are housed in separate opaque molded plastic housings and coupled by plastic fiber optic cable. The heavy-duty opaque housing shields the optical signal from dust, making this series of devices ideal for dust contaminated environments.

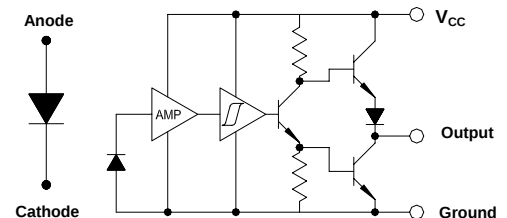
Custom electrical, wire and cabling and connectors are available. Contact your local representative or OPTEK for more information.

- Requiring High Voltage isolation between input and output
- Electrical isolation in dirty environments
- Industrial equipment
- Medical equipment
- Office equipment

Part Number	Isolation Distance	Device Length	LED Peak Wavelength	Lead Length
OPI1290-018	0.71" [18 mm]	1.26" [32.0 mm]	645 nm	0.45" [11.4 mm]
OPI1290-026	1.02" [26 mm]	1.57" [40.0 mm]		
OPI1290-032	1.26" [32 mm]	1.80" [45.8 mm]		
OPI1290-040	1.57" [40 mm]	2.12" [53.8 mm]		
OPI1290-066	2.60" [66 mm]	3.15" [80.0 mm]		
OPI1290-080	3.15" [80 mm]	3.69" [93.8 mm]		



Pin #	LED
1	Anode
2	Cathode
3	V _{CC}
4	Output
5	Ground



OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

Fiber Optic Isolator—Photologic® Sensor

OPI1290 Series



Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Storage Temperature Range (note 3)	-40° C to +80° C
Operating Temperature Range (note 3)	-20° C to +75° C
Lead Soldering Temperature [1/16 inch (1.6 mm) from case for 5 seconds with soldering iron]	260° C ⁽¹⁾
Power Dissipation ⁽²⁾	100 mW

Electrical Characteristics (T_A = 25°C unless otherwise noted)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
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LED (See OP240 for additional information)

V _F	On-State Collector Current	0.9	-	1.5	V	I _F = 20 mA
I _R	Collector-Dark Current	-	-	80	μA	V _R = 3.0 V

Photologic® Sensor (See OP550 for additional information)

SYMBOL	PARAMETER	MIN	TYP	MAX	UNITS	TEST CONDITIONS
V _{CC}	Operating Supply Voltage	4.5	-	16	V	-
	Peak-to-Peak V _{CC} Ripple Necessary to Cause False Triggering of Output	-	-	2	V	V _{CC} = 5 V DC, f = DC to 50 MHz
I _{CC}	Supply Current ⁽⁴⁾	-	8	15	mA	E _E = 0 or 3 mW/cm ² , V _{CC} = 5.5 V
E _{eT(+)}	Positive-Going Threshold Irradiance ⁽²⁾	.25	-	2.4	mW/cm ²	V _{CC} = 5 V, T _A = 25° C
E _{eT(+)} /E _{eT(-)}	Hysteresis Ratio	1.50	2	2.5	-	-
V _{OH}	Operating Supply Voltage	V _{CC} - 2.1	-	-	V	I _{OH} = -1 μA, E _E = 1 mW/cm ²
V _{OL}	Low Level Output Voltage	-	0.25	0.4	V	V _{CC} = 4.5 V, I _{OL} = 12.8 mA, E _E = 0
I _{OS}	Short Circuit Output Current	-20	-55	-100	mA	V _{CC} = 5.5 V, Output = GND, E _E = 3 mW/cm ²
I _{OH}	High Level Output Current ⁽²⁾	-	1	100	μA	V _{CC} = 4.5 V, V _{OH} = 30 V, E _E = 3 mW/cm ²
T _R & T _F	Output Rise & Fall Time	-	25	70	ns	V _{CC} = 5 V, T _A = 25° C, E _E = 0 or 3 mW/cm ² , f = 10 kHz, DC = 50% RL = 8 TTL loads
tpE _{eT(+)}	Propagation Delay Positive-Going	-	2.5	5.0	μs	V _{CC} = 5 V, T _A = 25° C, E _E = 0 or 3 mW/cm ² , R _L = 8 TTL loads, f = 10 kHz, DC = 50%
tpE _{eT(-)}	Propagation Delay Negative-Going	-	2.5	5.0	μs	V _{CC} = 5 V, T _A = 25° C, E _E = 0 or 3 mW/cm ² , R _L = 360 Ω, f = 10 kHz, DC = 50%
t _{PLH} , t _{PHL}	Propagation Delay (Low-High/High-Low)	-	5.0	-	μs	DC = 50%, R _L = 10 TTL Loads

Notes:

- (1) Derate linearly 2.5 mW/° C above 25° C for all devices in the OPL550, OPL551, OPL560, OPL561, OPL562 and OPL563 series.
- (2) Irradiance measurements are made with λ_i = 935 nm.
- (3) Storage and Operating temperature values are based on the plastic optical interface temperature ratings. Please reference UL1577 and UL file AVLZ.E89328

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Данный компонент на территории Российской Федерации

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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