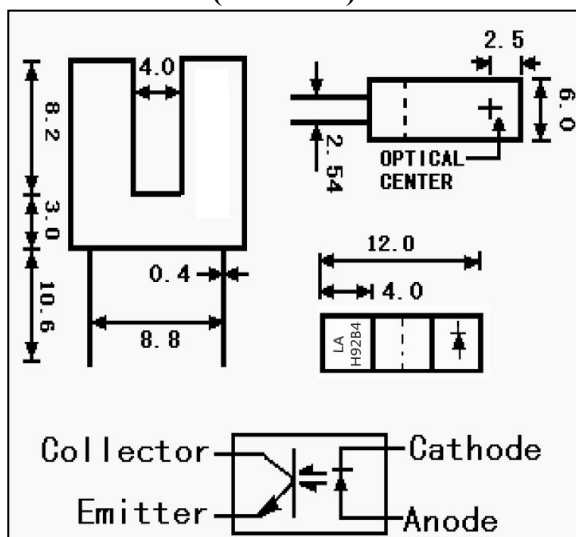




H92B4 is a transmission type photointerrupter combined high power infrared LED with high sensitive phototransistor, suitable for highly precise position sensing.

► DIMENSIONS(Unit:mm)



► MAXIMUM RATINGS

Item		Symbol	Rating	Unit
Input	Power Dissipation	PD	100	mW
	Forward Current	LF	60	mA
	Reverse Voltage	VR	5	V
	Pulse Forward Current*1	LFP	1	A
Output	Collector Power Dissipation	Pc	100	mW
	Collector Current	Ic	40	mA
	Collector-Emitter Voltage	VCEO	30	V
	Emitter-Collector Voltage	VECO	5	V
Operating Temp.*2		Topr.	-20+85	°C
Storage Temp.*2		Tstg.	-40+85	°C
Soldering Temp.*3		Tsol.	260	°C

► FEATURES

- 1.Gap width:4.0mm
- 2.Side slit type, width:1.5 X 0.8mm
- 3.PWB direct mount type
- 4.Detecting & emitting field with visible ray filter

► APPLICATION:

- Amusement Machine
- ATM Machines
- Shaft Encoder
- Printer

\*1.Pulse width:  $t_w \leq 100\mu s$  Period:  $T=10ms$

\*2.No icebound or dew

\*3.For max.5 seconds at the position of 1mm from the resin edge

► ELECTRO-OPTICAL CHARACTERISTICS

Item		Symbol	Condition	Min	Typ.	Max.	Unit
Input	Forward Voltage	VF	IF=20mA	-	1.2	1.4	V
	Reverse Current	IR	VR=5V	-	-	10	$\mu A$
	Peak Wavelength	$\lambda P$	-	-	940	-	nm
Output	Collector Dark Current	ICEO	VCE=10V, EV=0 IX	-	1	100	nA
Transmission	Light Current	Ic	VCE=5V, IF=20mA(Non-Shading)	1	-	-	mA
	Leakage Current	ICEOD	VCE=5V, IF=20mA(Shading)	-	0.5	10	$\mu A$
	C-E Saturation Voltage	VCE(sat)	IF=20mA, IC=0.1mA	-	0.15	0.4	v
	Rise Time	tr	VCC=5V, IC=2mA, RL=100 $\Omega$	-	4	-	$\mu s$
	Fall Time	tf		-	5	-	$\mu s$