

KI1138

Slitless • Dual Beam Type

Description

Model **KI1138** consists of an Infra Red LED and a High sensitive Photo IC(Digital Output), and has slitless plastic housing.

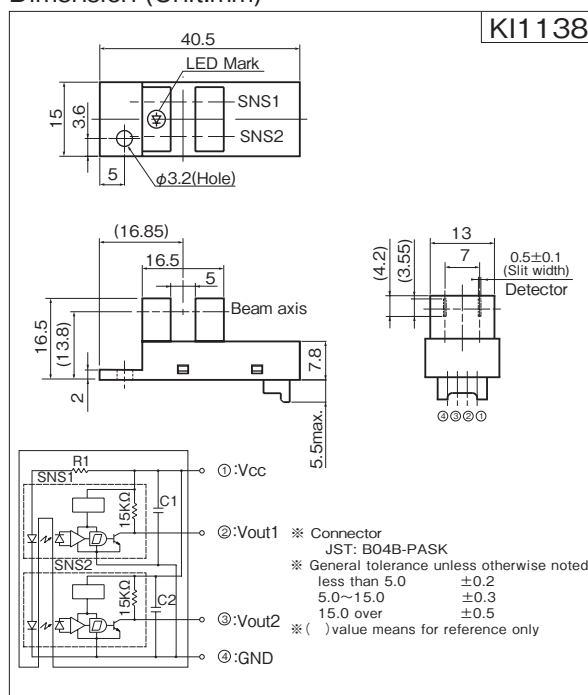
Feature

- Built-in amplifier, Pull-up Resistor output type.
- Easy removing in paper-dust.
- High-resolution : slit width 0.5mm.
- Visible Light cut filter.
- Built in resistor for LED drive.

Application

- Coin-passing for Auto vending machine and Amusement.
- Object passing for Card reader, Bill exchanger.

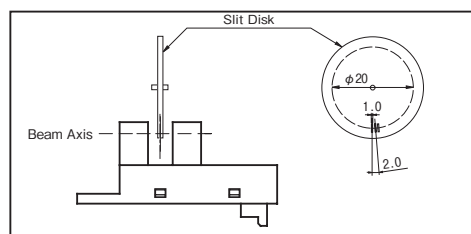
Dimension (Unit:mm)



Absolute Maximum Ratings

[Ta=25°C Unless otherwise noted]

Item	Symbol	Rating	Units
Supply Voltage	V _{CC}	6	V
Low Level Output Current	I _{OL}	50	mA
Operating Temperature	T _{opr}	-20 ~ +75	°C
Storage Temperature	T _{stg}	-40 ~ +80	°C



Note: Each value shown at rotating of slit disk.
Don't output as DC.

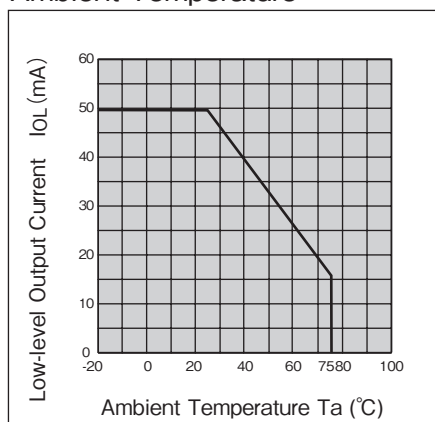
Electro-Optical Characteristics [V_{CC}=5V, Ta=25°C Unless otherwise noted]

Item	Symbol	Condition	min.	typ.	max.	Units
Supply Voltage	V _{CC}		4.5	5.0	5.5	V
Low Level Supply Current	I _{CC} L	at Light block by object	—	—	25	mA
High Level Output Current	I _{CC} H	at Beam detecting	—	—	25	mA
Low Level Output Voltage	V _{OL}	at Light block by object, I _{OL} =16mA	—	—	0.4	V
High Level Output Voltage	V _{OH}	at Beam detecting	V _{CC} × 0.9	—	—	V
Frequency	f		3000	—	—	Hz
Response Time	R i s e		—	1.47	—	μ sec
	F a l l		—	0.02	—	

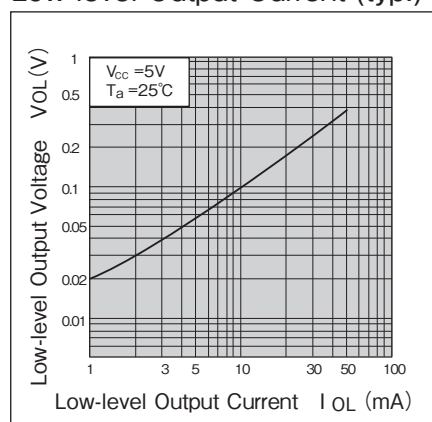
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Note: Operation never exceeds each value of Absolute Maximum Ratings.

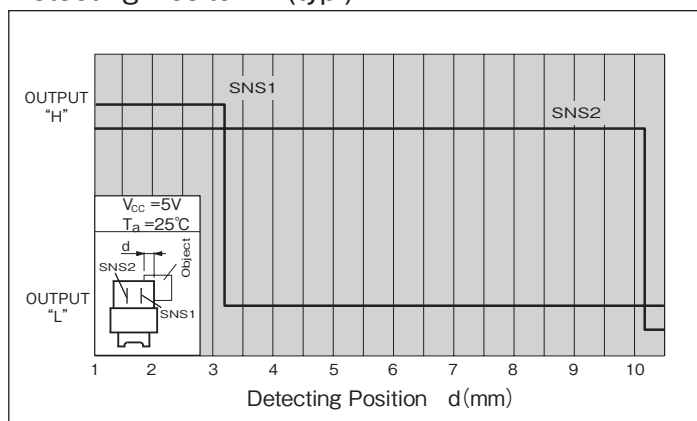
Low-level Output Current vs. Ambient Temperature



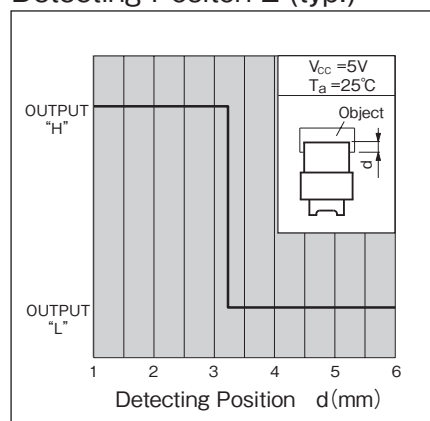
Low-level Output Voltage vs. Low-level Output Current (typ.)



Detecting Positon 1 (typ.)



Detecting Positon 2 (typ.)



- A Custom designed package is available on request.
- Specification are subject to change without notice.

04.09-1A

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