

SIS-ED05 & SIS-PT05 Photo Interrupter

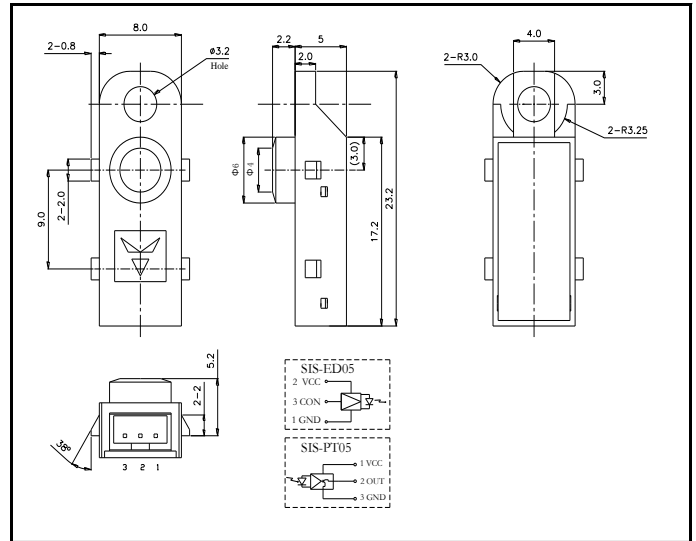
DIMENSIONS

Unit:mm

A modulative emitting diode and a modulative detecting photo IC with connector has been put in each package. The use of the emitter and detector as a pair enables it to work as a penetrative type photo-sensor of approximately 100cm (Can be practically used as a reflective type sensor). Can be used as a paper sensor due to easy equipping and its high anti-dust factor.

Features

- Anti-visible rays due to visible ray cut resin for detector type
- Connector type(JAE IL-Y type)
- Dust proof



Applications

- ATM
- Auto stampers
- Card readers/writers
- Optical switches

MAXIMUM RATINGS

(Ta=25°C)

Item		Symbol	Ratings	Unit
Input	Supply voltage	V_{CC}	7	V
	Supply voltage	V_{CC}	13.2	V
Output	Low level output current	I_{OL}	30	mA
	Power dissipation	P_D	100	mW
Operating temperature *1		$T_{opr.}$	-10~+60	°C
Storage temperature *1		$T_{stg.}$	-20~+80	°C

*1. No icebound or dew

Electro-Optical Characteristics

(Ta=25°C)

Parameter		Symbol	Conditions	Min.	Typ.	Max.	Unit
Emitter	Supply voltage	V_{CC}	-	4.75	-	5.25	V
	Current consumption	I_{CC}	$V_{CC}=5V$	-	15	30	uA
	Peak wavelength	λ_P	$V_{CC}=5V$	-	830	-	nm
	Half angle	$\Delta \theta$	-	-	±5	-	deg.
Detector	Supply voltage	V_{CC}	-	4.5	-	5.25	V
	Low level output voltage	V_{OL}	$V_{CC}=5V, I_{OL}=16mA, \text{Shading}$	-	-	0.4	V
	High level output voltage	V_{OH}	$V_{CC}=5V, R_L=10k\Omega, \text{Non-Shading}$	4	-	-	V
	Current consumption	I_{CC}	$V_{CC}=5V$	-	5	10	mA
	Half angle	$\Delta \theta$	-	-	±5	-	deg.
Combination	Detecting distance	L	$V_{CC}=5V$	100	200	850	cm
	Hysteresis	I_{FHL}/I_{FLH}	$V_{CC}=5V$	-	0.9	-	-
	L→H propagation time	t_{PLH}	$V_{CC}=5V, L=100cm, R_L=3.3k\Omega$	-	-	0.5	msec
	H→L propagation time	t_{PHL}		-	-	0.5	msec

The contents of this data sheet are subject to change without advance notice for the purpose of improvement. When using this product, would you please refer to the latest specifications.