High resolution

Omron original optical design provides displacement detection of ±10µm level

High stability Displacement output changes due to varying object colors are stabilized with PSD signal divider circuit



High durability Non-contact sensing provides high durability

Technology Overview

Item	Characteristics	Recital
Supply voltage	5V±10%	Ripple noise10mVp-p max.
Output voltage	0.2V~(Vcc-0.3)V	Load impedance (between OUT-GND) is set at more than 10 $k\Omega$
Response time	500µs max.	_
LED pulse light emission control signal	3.5V~Vcc	_
Operating area	6.5±1mm	Distance between the mounting standard surface
Sensitivity	-1.4mV/µm±10% max.	_
Resolution	±10µm max. (Ta=25)	_
Linearity	2%F.S. max.	_

Regarding characteristic details, refer to data sheet





(Unit : mm)

Applications

ATM (duplicated paper feeding/paper detection)





Photocopier

Mini printer (paper deflection sensing)



POS system (paper detection)



Contact

Americas HQ- 2895 Greenspoint Parkway, Suite 300 Hoffman Estates, IL 60169 components@omron.com (847) 882-2288

© OMRON Corporation 2016 All Rights Reserved.