

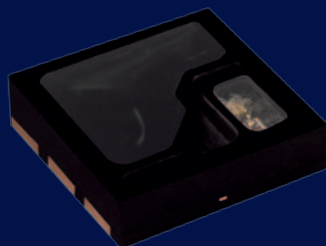


INFRARED

Optical Switch

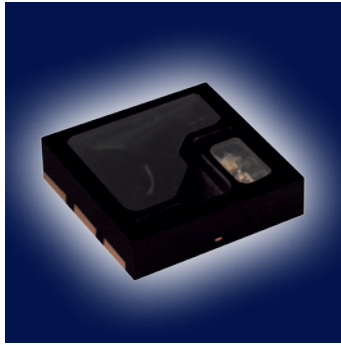
Precise position detection in a tiny package

Thanks to its small size and low power consumption, the SFH 7740 Optical Switch from OSRAM Opto Semiconductors is perfect for position sensing and touch switch applications in compact, battery-powered devices like mobile phones and PDAs. The first optical alternative to a Hall sensor, the SFH 7740 features a digital output and built-in ambient light suppression, giving product designers unprecedented freedom in creating innovative shapes and applications.



OSRAM
Opto Semiconductors

Optical Switch



Optical Switch



Display



Mobile device

Advantages

Ready to use

Measuring just 3.7 x 3.7 x 1.0 mm and delivering a digital output signal, the SFH 7740 is a ready-to-use optical switch that eliminates the need for additional signal evaluation logic.

Using a reflective mark rather than magnets, it overcomes magnetic interference problems associated with Hall sensors in position-sensing applications, and it performs extraordinarily well at extremely short distances (0.5 mm).

Compact & economical

Its low power consumption, combined with its exceptionally compact dimensions, make it the ultimate position sensing and touch switch component for mobile phones, PDAs and other compact, battery-powered devices.

Features

- Extremely small
- SMT package
- Digital output
- Low power consumption
- Built-in ambient light suppression
- Position sensing (detects a reflective mark on the moving object when it passes over the sensor)

Applications

- Optical switch (touch switch) for very short detection ranges
- Mobile phones, PDAs (position detection for battery covers, sliders, etc.)

Technical data

SFH 7740

Size: 3.7 x 3.7 x 1.0 mm
Mean current consumption: 50 - 75 μ A max.
Supply voltage: 2.4 - 3.6 V
Detection range: 0.5 - 4 mm

Optical Switch on the Internet:

www.osram-os.com/opticalswitch

Asia

OSRAM Opto Semiconductors Asia Ltd.
30/F China Resources Building
26 Harbour Road, Wan Chai
Hong Kong SAR
Phone: +852 3652 5522
Fax: +852 2802 0880
E-mail: prasia@osram-os.com

Europe

OSRAM Opto Semiconductors GmbH
Leibnizstrasse 4
D-93055 Regensburg, Germany
Phone: +49 941 850 1700
Fax: +49 941 850 3302
E-mail: support@osram-os.com

USA

OSRAM Opto Semiconductors Inc.
1150 Kifer Road, Suite 100
Sunnyvale, CA 94086, USA
Main Phone number: (408) 962-3700
Main Fax: (408) 738-9120
Inbound Toll Free: (866) 993-5211
E-mail: info@osram-os.com