

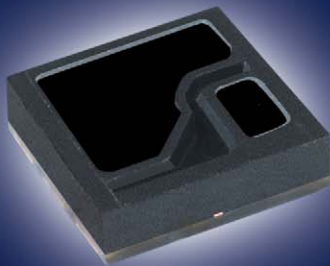


INFRARED

Short Range Proximity Sensor

Optical proximity switching – extremely compact

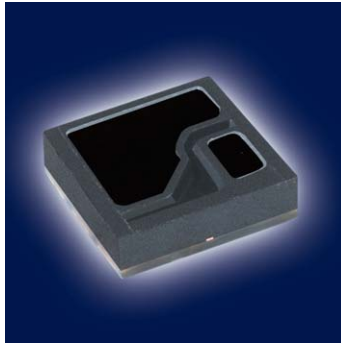
One of the first SMT optical proximity sensors to deliver a digital output signal, OSRAM Opto Semiconductors' SFH 7741 Short Range Proximity Sensor is designed for detection ranges of typ. 30 mm. With its very small size and low power consumption, it is perfect for proximity sensing and switching applications in battery-powered consumer devices like mobile phones and digital cameras.



Opto Semiconductors

OSRAM

Short Range Proximity Sensor



Short Range Proximity Sensor.



Digital camera.



Mobile device.

Advantages

With its low power consumption and compact size, the SFH 7741 is specially designed for use in battery-powered devices: In mobile phones it can automatically switch off the display or adjust the speaker volume when the phone is moved to the user's ear; in digital cameras it can switch off the display when the viewfinder is used. And thanks to its digital output signal and integrated ambient light suppression, it even eliminates the need for additional signal evaluation.

Features

- Extremely small
- SMT package
- Digital output
- Low power consumption
- Built-in ambient light suppression

Applications

- Detection of objects at short ranges (typ. 3 cm)
- Digital cameras (display power down when the viewfinder is used)
- Mobile phones (display power down when phone is held to ear)

Products

Optical proximity sensor

- SFH 7741

Technical Data

Size: 3.7 x 3.7 x 1.0 mm
Mean current consumption:
50–75 µA max.
Supply voltage: 2.4–3.6 V
Detection range: typ. 30 mm

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