

Inductive Proximity Sensor IC

Body 4mm x 4mm

Features

- Wide supply voltage range (5.5 V to 38 V)
- Fully integrated low cost proximity sensor IC
- User-adjustable sensing range and hysteresis
- Built-in voltage regulator
- NPN open collector output with guaranteed sink current of 150mA
- Output overload/over-current protection
- Broad range of operating frequency (100 kHz to 1MHz)

APEX MICROTECHNOLOGY INC.

5980 N Shannon Road Tucson, Arizona 85741 USA T: +1.520.690.8600 F: +1.520.888.3329

SALES SUPPORT

Toll Free: +1.800.862.1032 eMail: custserv@apexanalog.com

TECHNICAL SUPPORT

Toll Free: +1.800.546.2739 eMail: Apex.Support@apexanalog.com

WWW.APEXANALOG.COM



AIC1601 Inductive Proximity Sensor IC

Product Overview

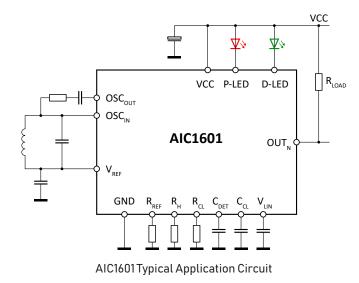
The AIC1601 is a sensor IC for inductive proximity applications and can be used with a range of inductive transducers. This device has an analog front end, the detection logic, output stage and the status LED drivers (detection and power) integrated.

Product Specifications - Key Parameters

Specification Parameter	Symbol	Max	Unit
Supply Voltage	V _{cc}	40	V
Voltages at pins OSC $_{\rm IN},$ R $_{\rm H},$ OSC $_{\rm OUT},$ C $_{\rm DET},$ R $_{\rm REF},$ V $_{\rm LIN},$ and C $_{\rm OVL}$	V _{max}	V _{LIN} + 0.3	V
Voltage at pin NO/NC	V _{N0/NC}	V _{cc}	V
ESD test voltage	V_{esd}	1	kV
Storage temperature range	T _{stg}	150	°C
Junction temperature	Tj	150	°C

Typical Applications

The AIC1601 is designed for Inductive proximity detection applications and can be used within a range of inductive transducers.



© 2023 Apex Microtechnology, Inc. All rights reserved. Product information subject to change without notice. The Apex Microtechnology logo is a trademark of Apex Microtechnology, Inc.