Smart Zapper[®] System

Request Quote

allowed physical examination

the company kept pace, and

for debris without oil loss.

at times, anticipated the

needs of airframe, engine,

and secondary power sys-

especially apparent in the development of electric chip

detectors, pulsed electric

chip detectors, and electronic

Eaton's Tedeco® product line

Smart Zapper is a micropro-

cessor-based chip detector

system that combines the

proven effectiveness of the

enhance the flexibility and

Total programming control

allows the user to determine

the pulse energy profile for

each chip detector location,

the number of chip clearing

pulses and the elapsed time

The typical system consists

of a power module and a

When debris bridges the

resulting short circuit is

quantity of chip detectors.

gap on a chip detector, the

routed to the power module

as a debris signal. The power

module attempts as many

reliability of this early failure

Zapper with features to

detection system.

between pulses.

quantitative debris monitor-

ing systems that resulted

from this endeavor.

tems manufacturers. This is



www.herberaircraft.com

Eaton has been the pioneering leader and innovator in lube system early failure detection devices for more than 50 years. Building on the success of a basic magnetic plug and self-closing valve combination that

built-in-test (BIT) circuits for internal and external faults. This functions after dc power turn-on. An indicator light will also indicate a disconnect chip detector or openwiring, a fault in power module detecting/control circuits, or low burn-off voltage.

As a failsafe feature, the power module takes itself off-line and converts to a passive detection system if power is disconnected or Zapper circuits malfunction.

Benefits:

- System built-in test, internal wiring fault monitor and termination check for each chip detector
- Programmable burn-off energy level and alarm threshold values for each chip detector
- Temperature sensor option for each chip detector provides overtemperature alarm
- Electronic memory of all burn-off events, available maintenance tracking and record keeping
- Special outputs for digital avionics bus, flight computer, HUMS, or cockpit multi-function display



Platforms incorporating Smart Zapper System

- Agusta/Bell AB139
- Bell B412CF
- KHI OH-1
- Mitsubishi MN2000
- NH Industries NH90
- Sikorsky S-92
- Westland Sea King



AS 9100



Eaton Aerospace Group Fluid & Electrical Distribution Division 24 East Glenolden Avenue Glenolden, PA 19036-2198 USA tel: (610) 522 4000 fax: (610) 522 4900 www.eaton.com/aerospace

Copyright © 2013 Eaton All Rights Reserved Copying or Editing is Forbidden Form No. DS200-23C October 2013