**Elactis**
Electronics for Actuators and Integrated Systems

# SOLENOID VALVE DRIVER[1]

## ADRV1026IMPAC



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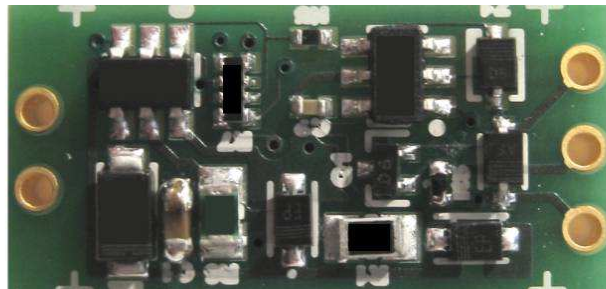
[1] In order to continuously improve the product values and functions may change without notice.

                   released on: 04/10/2012

## Features

- Wide input voltage range
- Increased solenoid performances
- Power saving
- Limited heating
- Full protection against coil discharge and reverse voltage

## Description

The ADRV1026IMPAC is a small interface electronic board to be integrated into a valve or in a cable. It reduces the power consumption. The board is miniaturized to make it easy to integrate into very limited volumes. Upon the turn-on of the power the driver allows full current to the valve during a time called $t_{Pull-in}$. Then it reduces the power by a ratio pre-programmed to customer specifications.

## Ordering description

**ADRV1026*IMPAC33%***

Parameters:

Pull-in time: Any values.  Actual set value: **300 ms**
Voltage reduction ratio: any value. Actual set values: **33 %**

## Electrical Specifications

| Parameter | | Minimum | Maximum | unit |
|---|---|---|---|---|
| Power Supply | | 5 | 27 | V |
| Pull-in current | | | 2.0 | A |
| Hold current | | | 0.5 | A |
| Pull in time | TT=300 | 285 | 315 | ms |
| Voltage reduction ratio | YY = 25% | 23 | 27 | |
| | YY = 33 % | 30 | 36 | % |
| | YY=50 % | 45 | 55 | |
| ESD protection | | 23 (IEC 61000-4-2 level 4) | | kV |
| Reverse voltage protection | | | - 30 | V |
| Protection against coil discharge | | | diode | |
| Operating temperature range* | | 0 | 50 | °C |

*larger working temperature range is possible

## Recommendation for use

The PCB board must be handled with care. During mounting electrical discharges may damage the board.
Use adequate ESD protection.

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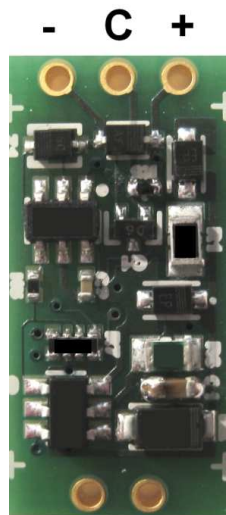
## Connections



**(-) is the negative connection**

**(C) Leave it open**

**(+) is the positive 24 Volt DC connection**

**(Valve) is the connection to the solenoid valve**

20 mm

Valve

10mm

## History records

| Rev. | Change | Date |
|------|--------|------|
| 1 | Creation from ADRV1026 | 03.16.2012 |
| 2 | Special version: 33% voltage reduction and 300 ms pull-in time | 25.07.12 |