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**Elactis**  
Electronics for Actuators and Integrated Systems

# POWER SAVING COIL DRIVER<sup>1</sup>

**ADRV1010**



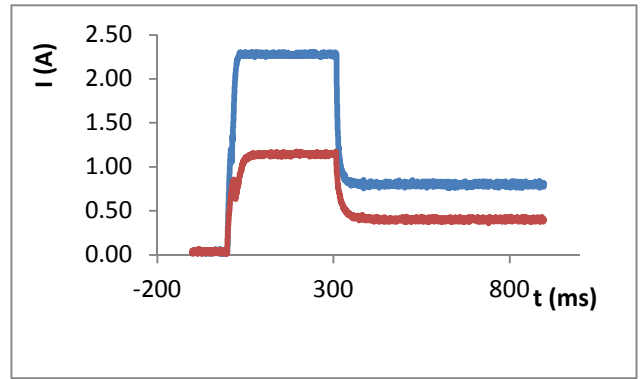
*Preliminary*

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<sup>1</sup> This datasheet is a preliminary description. Values and functions may change without notice.  
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**Features**

- Wide input voltage range (AC/DC)
- No polarity
- Increased solenoid performances
- Power saving
- Limited heating
- Full protection against coil discharge



**Figure 1** Current in a 10 Ohm coil. time: 100 ms/sq, current: 500 mA/sq. Supply voltage: 24V (blue) 12V (red)

**Description**

Pull in time: 300 ms  
 Voltage reduction: to 33 %  
 Valve side connector: EN175301-803 Type A  
 Supply side: 1.5 m cable  
 Mold: Polyurethane

Other parameters are available on request.

**Ordering description**

**ADRV0010A 15 03 09 30**

**Absolute Maximum Values**

Parameter	Maximum	unit
Power Supply On	56	VDC
	36	VAC
Pull-in current	2500	mA
Hold current range	1000	mA
Ambient temperature	tbd	°C

**Electrical Specifications, ADRV0010A xx 03 09 30**

Parameter	Minimum	Maximum	unit
Power Supply On	10	52	VDC
	19	30	VAC
Vhold	32	35	% V supply
Pull in time	280	320	ms
Power consumption of the electronics		4	mA
ESD protection	23 (IEC 61000-4-2 level 4)		kV
Protection against coil discharge		diode	
Operating temperature range	tbd	tbd	°C
Ingress protection (IP)	65		

**Connections**

Cable:

Brown / Blue	Power
Green/yellow	Ground

**History records**

Rev.	Change	Date
01	Creation	04.08.2014

