

Programmable driver with over-boost NEPTUNE6

Written by emmeci

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The NEPTUNE6 driver is designed to resolve a number of problems related to the reaction speed of elec

Using NEPTUNE6 you can drastically reduce the reaction time (activation) of actuators connected to it,

The driver with over-boost NEPTUNE 6 has 6 inputs that can be combined with 2 outputs via functions p

NEPTUNE6 is complete with NEPTUNE6-Com software, which is used to set all the operational parame

NEPTUNE6 has self-diagnosis functions that detect feasible anomalies on the load (disconnected, overl

NEW FUNCTIONS

The NEPTUNE6 driver is available in the new version with firmware V2.0, which includes all the functions just mentioned, plus the new pause-run/ fragmentation mode of the adhesive section.

This function is thus entitled because it is devised especially to pilot guns for gluing systems and allows you to fragment a very long section of adhesive into shorter sections, thus saving in adhesive.

NEPTUNE6 has self-diagnosis functions that detect feasible anomalies on the load (disconnected, overload) and on the internal temperature of the driver (overheating), which increase reliability and help identify altered working conditions.

Unlike other systems, the NEPTUNE6 driver offers many advantages:

It is easy to install on new and existent systems:

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- The NEPTUNE6 board is installed along the cables that connect the actuator to the control system (PLC, cam-controller etc.) without any precautions in particular.
- All it needs to be able to work is a power supply voltage of 24Vdc, thanks to the built-in converter that generates the energizing over-boost voltage.

It safeguards the actuators: the over-boost pulse has a duration of just a few milliseconds, consequently there is no overheating of the coils controlled, which could cause damages, typical in systems in which the actuators are powered at voltages higher than the nominal voltage.

Possibility to program the duration of the over-boost pulse, of the activation time of the outputs and the functions connected to the activation of the outputs (combination of the inputs, memory functions etc.). Conditions that point out anomalies can also be programmed.

It is simple to commission, to install and to check its operating efficiency, thanks to the use of free NEPTUNE6-Com software for systems with Windows®95 or superior operating system.

TECHNICAL SPECIFICATIONS

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DIMENSIONS (length x width x height)	45x15x120 mm
FIXTURE	DIN guide
CONNECTIONS	Extractable screw-on terminals for cable Ø max.1,5mm
POWER SUPPLY	
22-28Vcc	
NUMBER OF CHANNELS AVAILABLE	
2	
PILOT VOLTAGE	
18-30 Vcc (NPN or PNP command) with input resistance 1Kohm	
MAX OUTPUT CURRENT FOR EACH CHANNEL	
1A	
MAX OUTPUT POWER FOR EACH CHANNEL	
20W	
TYPE OF OUTPUTS	
PNP logic with built-in transient suppressor	
DC-DC CONVERTER OUTPUT	
>80%	

The technical manual of the NEPTUNE6 driver is included in the guide of the Neptune6-Com software.

Related arguments:

- [Driver board with over-boost HVEVSSR](#)

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- [Programming software NEPTUNE6-Com](#)