

LE70: General purpose unit control with double microcontrollers

3B6®

LE70 belongs to the category of programmable controllers for mobile automation applications. It is based on a high number of inputs/outputs (also configurable via sw), all protected against short circuit to ground or voltage overload, with built-in diagnostic capability.

LE70 has been designed to work in harsh environments and extreme temperatures (from -40 to +85°C), for machine working both at 12V or 24V, typical of off-highway market. Its double processor architecture allows the use of LE70 also in systems where the compliance to the safety standard EN 13849 is required.

It is capable of reading any type of sensor for this kind of machines and manage different actuators, also PWM solenoids with automatic current regulation, without any need of amplifiers or fuses. It also can easily integrated

into CAN networks, and it can be programmed with the powerful 3B6 tool VT3, ready for IEC61131 standards. The case is a robust aluminum housing with high protection degree (IP66) ready for external use.

LE70 belongs to the new 3B6 product line of low cost controllers, without compromises to quality, performances and versatility.

Free programmability and the variety of configuration options enable use in a wide range of different applications



TECHNICAL DATA

CONTROL SYSTEM:

- Main microcontroller: Freescale 16 bit (265KB internal flash, 16 KB internal RAM and 4 KB internal E2Prom)
- Test equipment microcontroller: Freescale 8bit (32KB internal flash, 2KB internal RAM and 1KB internal E2Prom)
- 2 Mbit flash SPI
- 64 kbit non volatile ram
- RTC: 1 clock/calendar with 240x8 bit RAM
- VT3 programmable

CONNECTIVITY:

- 2 CAN-BUS, CAN 2.0B (11 or 29-bit), ISO 11898-2 compliance, speed up to 1 Mbit/s, CAN-OPEN compatible.

ELECTRICAL CHARACTERISTICS:

- Power Supply: 9 ÷ 32 Vdc (Operates on vehicle power supply directly)

I/O CONFIGURATION:

Input:

- 19 Analogue input 0-20mA, 0-5V, 0-30V or high active on/off
- 2 Analogue input 0-20mA, 0-5V, 0-30V or high active on/off or low active on/off
- 2 RPM input or high active on/off
- 2 RPM input for pick up signal with pull-up selectable

Output:

- 20 high active on/off output with feedback or PWM with current feedback (low accuracy)
- 12 high active on/off output with feedback
- 1 external +5V max 100mA
- 2 watch-dog bank

MECHANICAL CHARACTERISTICS AND RATINGS:

- Housing: Aluminium with plastic flanges
- Protection: IP66 (to verify)
- Operating Temperature Range: from -40°C to +85°C (from -40°F to +185°F) (to verify)
- Storage Temperature Range: from -40°C to +85°C (from -40°F to +185°F) (to verify)

MECHANICAL DIMENSIONS:

