CLS: INTEGRATED CONTROL SYSTEM
WITH GRAPHIC DISPLAY

CLS is a device able to meet all types of needs in global automation systems. Its wide display allows a quick and clear analysis of vehicle status, its maintenance conditions, sensors status and so on, also through multiple graphic pages. It has several integrated inputs/outputs, to become a real stand-alone and compact control system for middle size machines size. To complete the features, it has buttons high visibility warning lights in the same box. CAN-BUS port allows full integration with existing networks.

TECHNICAL DATA

CONTROL SYSTEM:
- Microprocessor Freescale 16bit, 25 MHz
- RAM memory 364KB program data
- RAM memory 160 KB frame buffer
- Flash memory 256 KB for software
- Flash memory 1 MB fonts and icons storage
- EEPROM 3 KB for Parameters Storage
- Additional Flash memory 256KB for data logging and Black Box
- Real time clock with 240 byte RAM and rechargeable backup battery

CONNECTIVITY:
- 2 CAN-BUS, CAN 2.0B (11 or 29-bit), ISO 11898-2 compliance, speed up to 1 Mbit/s,
- 1 serial line standard RS232 (baud rate up to 57600 baud)

ELECTRICAL CHARACTERISTICS:
- Power Supply : +9 V - +30 Vdc

FEATURES:
- 3.8"B/W display transfletive.
  - Overall size 76.8(W) x 57.6(H) mm.
  - Resolution 320 x 240 pixels
  - View angle 80°
  - Brightness 60 cd/m2
  - Backlighting: White LEDs
- Version with 6 high-brightness customizable pilot lights
- Version with 6 high-brightness customizable pilot lights and 4 function keys and access to the menus
- On Dash or In Dash installation

MECHANICAL CHARACTERISTICS AND RATINGS:
- Housing: Stainless steel or ABS
- Operating temperature range: from -20°C to +70°C
- Storage temperature range: from -30°C to +80°C
MECHANICAL DIMENSIONS:

- 4 Input/Output software configurable as:
  - On/Off Inputs (High-side)
  - PWM Outputs (High-side current 2A, short circuit current 8A), short circuit protected.

- 2 Input/Output software configurable as:
  - On/Off Inputs (High-side)

- 4 Input software configurable as:
  - On/Off Inputs (High-side)
  - Analog Inputs with range 0 ÷ 5.5 V, 10-bit resolution
  - Analog Inputs with range 0 ÷ 30 V, 10-bit resolution
  - Analog Inputs with range 0 ÷ 20 mA, 10-bit resolution

- 4 Input software configurable as:
  - On/Off Inputs (High or Low side)
  - Analog Inputs with range 0 ÷ 5.5 V, 10-bit resolution
  - Analog Inputs with range 0 ÷ 30 V, 10-bit resolution
  - Analog Inputs with range 0 ÷ 5.5 V with current pump