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Line-driver interface ⇒ push-pull LD485PP

LD485PP interface has been designed to solve problems related to interfacing between sources equipped with line-driver outputs (es. encoder, drives, ecc.) and systems equipped with PNP and NPN inputs.

The line-driver signals often have sufficient amplitudes to correctly control systems (PLC, industrial PC, ecc.) equipped with 0-24Vcc inputs.

LD485PP allows to transform the differential signal into one referred to the negative of the power supply and is also able to bring its amplitude to values close to that of the power supply (24Vcc), making the 2 signals compatible.

LD485PP is capable of operating at frequencies above 300KHz, therefore it can be used in many applications.

The LD485PP interface is able to operate a single line-driver line, therefore in the case of use in systems with multiple line-driver lines, must be provided more interfaces (one for each line).

LD485PP INTERFACE TECHNICAL CHARACTERISTIC

DIMENSION (Lenght. x Depht. x H.)	93x28x52mm.
FIXING	DIN Guide
CONNECTIONS	Screw terminal for cable ∅ max.1,5mm
POWER SUPPLY (Vsupply)	18-26Vcc 30mA max.
TYPE OF OUTPUTS	push-pull 100mA max. outputs equipped with a current limiting resistor of 100Ω
OUTPUTS VOLTAGE (Vout)	0,5V ≤ Vout ≤ Vsupply - 2,5V @ 20mA
LINE-DRIVER INPUTS FREQUENCY	0 ≤ FIN ≤350KHz
LINE-DRIVER INPUTS IMPEDANCE	≥ 12K Ω
LINE-DRIVER INPUTS VOLTAGE (Vin)	-7V ≤ Vin ≤ +12V (voltage between A (or B) and – Alim.)
LINE-DRIVER DIFFERENTIAL VOLTAGE (Vin)	±0,2V ≤ Vin ≤ ±12V (voltage between A and B)

LD485PP interface: schematic diagram