PRO-MOTION *Programmers*

GENERAL DESCRIPTION

PRO MOTION is a programmable motion controller that can be used for the interfacing with a central control system or as an independent unit.

PRO MOTION programmers are optimized for the control of the systems with R.T.A. stepping or brushless motors.

They are housed in a solid metallic box IP20, 180 x 173 x 40 mm format, suitable for wall mounting.

PRO MOTION programmers require a single supply voltage 24 Vdc or 24 Vac and do not need external fans: accordingly, they are ideal both for mounting inside a metal electrical cabinet and for stand-alone applications.

R.T.A. experience, together with a careful design both of electronic and software for these specific purposes has led to a component offering high reliability, best performances, great ease of use at competitive costs.

Specific instructions set and the availability of programmable inputs and outputs optimize the use of ***PRO MOTION*** programmers with a wide variety of motors and in a large number of applications.

The complete compatibility with ***MIND T*** series drives eases the realization of mixed stepping - brushless systems.

Motion Control Systems

TECHNICAL FEATURES

- Communication through RS232 or RS485 serial line set by the user; up to 48 programmers can be connected on a single serial line (RS485).
  One instruction can be broadcasted to all programmers.
- Various types of available instructions as, for example: indexed run with ramp, free run with ramp, indexed run without ramp, free run without ramp, run with a programmable braking distance, zero research.
  Space can be programmed in relative or absolute mode (linear of circular).
- Number of steps for indexed run up to ± 8.338.607 in relative or absolute mode, speed from 200 to 24.000 Hz, ramp times from 16 to 1440 msec.
- Availability of instructions to develop motion programs as, for example: conditional jump, time delay, program block and recovery, I/O management, FOR NEXT loop.
- Zero research procedure with a single instruction and with hardware dedicate input.
- Possibility to control the execution of 16 previously stored motion programs through hardware inputs. Accordingly, the programmer can be used in stand-alone applications, without serial connection.
- Possibility to control all program previously stored or single instructions through the serial line.
- Ten inputs and four outputs, all optically insulated. Among them two inputs and two outputs are freely programmable.
  STEP and DIR double outputs that can realize two synchronous axis systems.
- Memoriy of 128 istructions kept also at programmer switched-off.
- Utilities working in Windows® are available in order to ease motion programs development by the user.