DPS 32/C7 VE1VB 1024

Digital programmed switch high resolution equipped with 32 outputs, linear advanced end delay, cams ratio, storage of 7 sizes and 255 messages, splash guard.

DESCRIPTION

The electronic cam programmer is an instrument capable of processing the data supplied by the encoder to generate a series of pulses, programmable by the user, which allow activation of drives to carry out machine cycles.

In this way you will avoid all the difficulties traditionally encountered in mechanical components (wear and high maintenance costs) and you can take advantage of the many advantages associated with electronics (phase changes with the machine in motion, program recording, interfacing with the software via serial, etc.).

This equipment supports an absolute encoder in input with a resolution of 1024 positions/turn, in output 32 electronic cams auto protected against short-circuit and overload.

The linear advance function can be activated per cam; delay function for benches. Storage of 7 sizes with possibility of expansion up to 30 selected also remotely with binary code via PLC or contraves; 255 alarm messages selectable also remotely with binary code via BMS interface.

The 2 benches of cams ratio enable management of several machines from one programmer at different speeds on a single line.

The speed ratio enables the display of encoder turns to be multiplied or divided, which is used in case of multiple or two machines coupled on the same line.

If the encoder is disconnected or an output has short-circuited, a signal will indicate alarm status, in order for the machine to be stopped to prevent damage to mechanical or electrical devices.

Programming in five languages (Italian, English, French, German and Spanish) is easy to do manually on the on-board panel keypad.

The membrane keyboard and the aluminum front frame with shaped gasket protect the equipment and make it suitable for the harshest environments.

Cam programmer dimensions 196x99x140 mm according to DIN-43700

MAIN FEATURES

Power supply	*24Vdc*
Encoder data input	*1024° absolute one turn (NPN open collector o push-pull)*
Max current encoder	*100mA*
Number of outputs	*32*
Output voltage	*24Vdc – PNP auto protected or NPN not protected*
Output current	*500mA for output (max 1.2A each 8 outputs bench)*
N° of stored messages	*255*
N° of sizes (standard)	*7*
N° of sizes with expansion memory	*30*
External sizes selection	*from PLC or contraves with binary selection (4bit)*
Messages selection	*from BMS interface with binary selection*
Number of phases for output	*180 phases ON/OFF for each cam*
Data adjust	*ON LINE*
Max speed (R.P.M).	*8000 R.P.M.(are reduced if advances are selected)*
Advance for speed compensation (ms)	*1 - 210ms for single cam*
Delay for compensation (ms)	*1 - 210ms for 3° bench (cams17-24)*
Speed ratio	*from 1/3 to 9/1*
Cams ratio	*from 1/1 to 1/9 for 3° and 4° bench(cams17-32)*
Signal encoder connected / outputs working	*24Vdc PNP (max 50mA)*
Setting zero encoder	*mechanic (machine) or electronic (encoder)*
Outputs test	*with failure led for single bench*
Encoder test	*with indication on the display*
Speed limit	*activation of the cam 32 when the limit is exceeded*
Languages	*Italian / English / German / French / Spanish*
RS232 for communication PC	*software CREI STT Elettronica*
Display	*LCD 20x2 characters*
Splash guard	*aluminum frame with molded seal*
Partial pieces counter	*selectable from keypad*
Waste pieces counter	*selectable with external signal*
Security key	*selectable*

TECHNICAL DRAWING