DPS 16/C44 VE1VPB

Digital programmed switch with Profibus communication ,16 outputs, speed ratio, storage of 44 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 360 positions/turn, in output 16 electronic cams auto protected against short-circuit and overload. The linear advance function can be activated per cam; delay function for benches. Storage of 44 sizes selected also remotely with binary code via PLC or contraves; 255 alarm messages selectable also remotely with binary code via BMS interface.

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, or remotely via software or Profibus network.

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	360° absolute one turn (NPN open collector o push-pull)
Max current encoder	100mA
Number of outputs	16
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)	44
N° of sizes with expansion memory	None
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).	8700 R.P.M.(are reduced if advances are selected)
Advance for speed compensation (ms)	1 - 210ms for single cam
Speed ratio	from 1/3 to 9/1
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 16 when the limit is exceeded
Languages	Italian / English / German / French / Spanish
Profibus communication	with standard IEEE 802
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

99,0 mm

140,0 mm

196,0 mm

DIGITAL PROGRAMMED SWITCH

BREVETTO N.3477A/87

CREI **STT** ELETTRONICA

DPS 16C44 VE1V

CE

FAIL
1–8
9–16

SUP.
33 A
34 B

▲ ▼

PROD. ON | ENC. | RS 232 | COUNT | CLEAR | 0 | 1 | 2 | 3 | 4

RESET OFF | DEF. | ALARM | CLOCK | X | 5 | 6 | 7 | 8 | 9

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

1° ENC   2° ENC

C.R.E.I. STT ELETTRONICA BOLOGNA ITALY

CE

SUPPLEMENTARY INPUT-OUTPUT

2°-3° ENCODER - 1°ENCODER

PROFIBUS

MODEL

SERIAL

24 VDC

PNP

NPN

FUSE 0,7A

PLC

RS232

WARNING
DON'T EXTRACT OR
INSERT CONNECTORS
WHILE POWER IS ON

OUTPUT 17-32

POWER / OUTPUT 1-16