Axis positioning unit

Servo.D

Datasheet

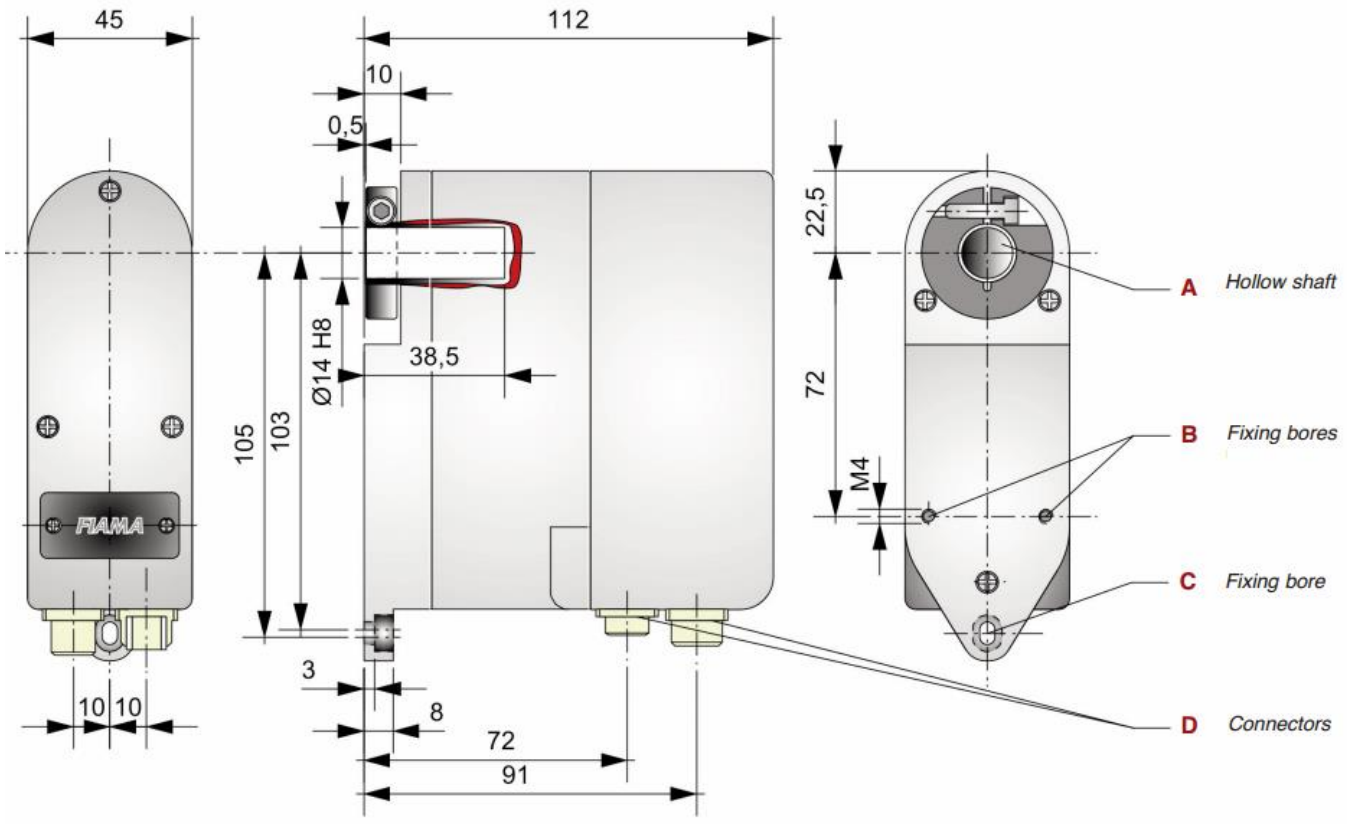
Characteristics

- Complete system for axis control
- Brushless motor with reducer and control with micro-processor of the driving motor built-in
- Position transducer
- Interface for field-bus

It realises in a single and compact device a **complete system for the control of axis** being able to receive by bus a dimension to reach and start with the positioning by a control type PID.

The SERVO.D unit has a hollow shaft output to enable a simple assembling and a versatile use, even with pre-existent manual motion machines that have to be automatized. Therefore it is suitable for a large number of applications in machinery within industries such as printing, packaging, woodworking, marble, plastic, etc. A simple linking and lay out are guaranteed by a supervisor (PC, PLC), the system interfaces with a bus-field to control the positionings and enables the modifications of the control parameters (present quota, speed, state). **The communication record can be MODBUS RTU, CANopen, PROFIBUS DP.** The electric connection is carried out by the means of 3 connectors M2x1 for power supply and field-bus.

Dimensions



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Technical data

Power supply	24 VDC±20%, max. 4 A
Nominal power	60 W
Hollow shaft	Bore 14 mm
Speed and torque	Not constant use max. 100 rpm: 4 Nm 80 rpm
Encoder resolution	1000 imp/turn
Potentiometer resolution	16000 points on the total stroke
Potentiometer transmission ratios	2-4-6-12-18-36-54-108-162, reducing
Potentiometer (rev.)	**nP**: 1 (340°) – 3 (1080°) – 5 (1800°) – 10 (3600°)
Field bus interface	CANopen DS301, MODBUS RTU RS485, PROFIBUS DP
Working temperature	0-60°C
Relative humidity	10-85%
Protection class	IP54 or IP65
Self-extinguishable shock-proof case	**SERVO.D** 112x45x135
Electromagnetic compatibility	2004/108/EC

Ordering example

Type SERVO.D **P - 18/1 - PROFI - IP54 - D10**

Verions
I - geared motor with encoder
A - geared motor with potentiometer
B - geared motor: potentiometer, analog output
E - geared motor: encoder and driving
P - geared motor: potentiometer and driving

Pot. Rev. and red. ratio
nP - potentiometer
R - transmission ratio

Outputs
RS485 - serial output MODBUS RTU RS485
CAN - serial output CANopen
PROFI - serial output PROFIBUS DB

Protection class
1 - IP54
2 - IP66

Optional – Connectors
D9 - Connector 4 poles 90°
D10 - Straight connector 4 poles

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