Linear actuators -stepper

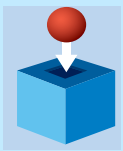
➜ 10 mm displacement -15° step angle

- **A range of digital linear actuators based upon synchronous motor technology. They offer a linear travel of 10 mm as standard and up to 35 mm upon request for versions with an anti-rotation device built-in. Linear step speed 0.833 or 1.67 mm per second.**
- **Output force between 27 and 45 N.**

Specifications

	2 phases	4 phases
Type	80 910 5	80 910 5
Nominal voltage (V)	5.6	17
Part numbers	●	●
General characteristics		
Motor step (°)	15	15
Number of phases	2	4
Rated displacement (mm)	10	10
Linear step displacement (mm)	0.033	0.033
Positioning accuracy (mm)	< 0.01	< 0.01
Axial load static (daN)	10	10
Radial load	Consult us	Consult us
Operating temperature (°C)	-5 → +75	-5 → +75
Wires length (mm)	250 ± 10	250 ± 10
Coil (Ω)	12.9	115
Electromechanical specifications		
Dynamic axial load to 100 Hz (N)	43	24
Absorbed power (W)	5	5
Absorbed current nominal (A)	0.44 A nominal	0.12 A nominal
Life	500 000 cycles	500 000 cycles
Mounting position	Any	Any
Storage temperature (°C)	-40→ +80	-40→ +80
Weight (g)	90	90

Product adaptations

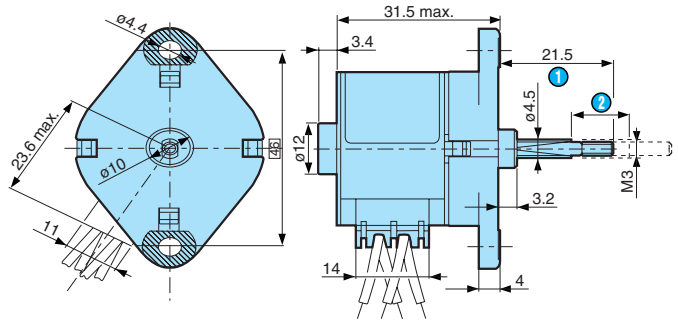


- **Special output shafts**
- **Special supply voltages**
- **Special cable lengths**
- **Customised electronics**
- **Special construction materials**
- **Special connectors**

To order, see page 13

Dimensions

80 910 5

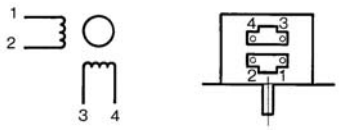


1 Shaft in
2 Travel

Connections

2 phases

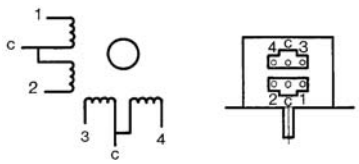
		1	2	3	4
1	1	-	+	-	+
	2	-	+	+	-
	3	+	-	+	-
	4	+	-	-	+
	5	-	+	-	+



1 Step
Energisation sequence for shaft outward movement

4 phases

		1	2	3	4
1	1	-		-	
	2	-			-
	3		-		-
	4		-	-	
	5	-		-	



1 Step
Energisation sequence for shaft outward movement

Other information

Electromagnetic compatibility :
Conducted emissions : EN 55 014
Radiated emissions : EN 55 022
Protection index IP40 EN 60 034 / CEI 529
Temperature limit when stalled Classe B EN 60 335-1 CEI 85