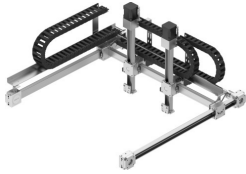


Three-dimensional gantry EXCL-15-200-300-Z1-100-GF-ST-R-1-EK-M6-AN

Part number: 8184925

FESTO



 [General operating condition](#)

Data sheet

Feature	Value
Size	15
Stroke of the X-axis	200 mm
Stroke of the Y-axis	300 mm
Stroke of the Z-axis 1	100 mm
Controller operating mode	P position controller Direct operation Synchronised operating modes Homing Open-loop operation
Operating mode	Microstepping, >4000 steps/rev
Adjustable current reduction	Via software
Mounting position	Horizontal
Protective function	Voltage failure detection Software end-position detection
Design	3D gantry system
Type of interpolation	Linear interpolation
Type of motor	Stepper motor
Position mode	Position directly transferred
Display	Green/yellow/red LED
Nominal current setting	Via software
Max. acceleration	1 m/s ²
Max. speed	0.5 m/s
Repetition accuracy	±0.1 mm
Max. search speed X-axis	0.03 m/s
Max. creep speed X-axis	0.003 m/s
Max. search speed velocity Y-axis	0.03 m/s
Max. creep speed Y-axis	0.003 m/s
Max. search speed Z-axis	0.015 m/s
Max. creep speed Z-axis	0.003 m/s
Duty cycle	100%
Nominal voltage for logic power supply DC	5 V
Nominal voltage load voltage DC	24 V
Nominal voltage X-axis	1.68 V
Nominal voltage Y-axis	3.2 V
Nominal voltage Z-axis	3.2 V
Nominal current X-axis	4.2 A
Nominal current Y-axis	2 A

Feature	Value
Nominal current Z-axis	2 A
Parameterisation interface	Ethernet
Position control	yes
Ethernet, supported protocols	FTP TCP/IP
Permissible range for logic voltage	± 10 %
KC mark	KC-EMV
CE mark (see declaration of conformity)	To EU EMC Directive
UKCA marking (see declaration of conformity)	To UK instructions for EMC
LABS (PWIS) conformity	VDMA24364 zone III
Storage temperature	-10 °C ... 60 °C
Relative air humidity	0 - 90%
Sound pressure level	65.8 dB(A)
Degree of protection	IP10
Ambient temperature	10 °C ... 40 °C
Motor holding torque	0.5 Nm ... 1.4 Nm
Max. process force in Z direction	15 N
Feed constant of the X-axis	64 mm/U
Feed constant of the Y-axis	37.7 mm/U
Feed constant of the Z-axis	5 mm/U
Product weight	5450 g
Process interfacing	Drives with positioning function
Communication interface, logic	Ethernet - TCP/IP
Type of mounting	With female thread M3
Note on materials	RoHS-compliant