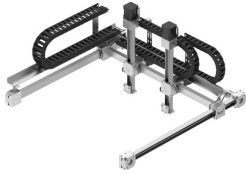


# Three-dimensional gantry

## EXCL-15-400-700-Z2-200-200-GF-ST-R-1-EK-M6-AN

FESTO

Part number: 8184926



 General operating condition

## Data sheet

Feature	Value
Size	15
Stroke of the X-axis	400 mm
Stroke of the Y-axis	700 mm
Stroke of the Z-axis 1	200 mm
Stroke of the Z-axis 2	200 mm
Controller operating mode	P position controller Direct operation Synchronous operating modes Reference travel Open-loop operation
Mode of operation	Micro step, >4000 steps/revolution
Adjustable current reduction	Via software
Mounting position	Horizontal
Protective function	Voltage failure detection Software end position detection
Structural design	3D gantry system
Type of interpolation	Linear interpolation
Motor type	Stepper motor
Position mode	Transfer position directly
Display	LED green/yellow/red
Nominal current setting	Via software
Max. acceleration	1 m/s <sup>2</sup>
Max. speed	0.5 m/s
Repetition accuracy	±0.1 mm
Max. search velocity X-axis	0.03 m/s
Max. creep velocity X-axis	0.003 m/s
Max. search velocity Y-axis	0.03 m/s
Max. creep velocity Y-axis	0.003 m/s
Max. search velocity Z-axis	0.015 m/s
Max. creep velocity Z-axis	0.003 m/s
Duty cycle	100%
Nominal voltage, logic supply DC	5 V
Nominal voltage, load supply 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

Feature	Value
Nominal current Y-axis	2 A
Nominal current Z-axis	2 A
Parameterization interface	Ethernet
Position control	yes
Ethernet, supported protocols	FTP TCP/IP
Permissible range of logic voltage	± 10 %
KC characters	KC EMC
CE marking (see declaration of conformity)	As per 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 %
Noise 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	9120 g
Process interfacing	Drives with positioning function
Logic communication interface	Ethernet - TCP/IP
Type of mounting	With internal thread M3
Note on materials	RoHS-compliant