

Planar surface gantry EXCM-10-460-110-GF-ST-B-E1

FESTO

Part number: 1801916
Product to be discontinued

[With plain-bearing guide.](#)

Type to be discontinued. Available until 2018. See Support Portal for alternative products.



Data sheet

Feature	Value
Size	10
Stroke in X direction	460 mm
Stroke in Y direction	110 mm
Controller operating mode	PWM-MOSFET power output stage Cascade controller with P position controller PI speed controller Proportional and integral controller for electricity
Operating mode	Micro step, 2000 step/U
Adjustable current reduction	Using software
Assembly position	Horizontal
Position sensor	Encoder
Mains filter	Integrated
Protective function	I ² t monitoring Temperature monitoring Current monitoring Voltage failure detection Drag error monitoring Software end-position detection
Design structure	Planar surface gantry
Type of interpolation	Linear interpolation
Motor type	Stepper motor
Position mode	Set selection mode Position directly transferred
Display	7-segment
Nominal current adjustment	Using software
Max. acceleration	3 m/s ²
Max. speed	0.3 m/s
Repetition accuracy	±0,1 mm
Braking resistance	15 Ohm
Digital logic output characteristics	Not electrically isolated
Duty cycle	100%
Max. current, digital logic outputs	100 mA
Max. intermediate circuit voltage, DC	28 V
Nominal DC voltage, logic power supply	24 V
Nominal voltage, load supply DC	24 V
Nominal current, load supply	6 A
Nominal current, logic supply	0.3 A
Effective nominal current per phase	1.4 A
Parameters configuring interface	Ethernet
Position control	Yes
Ethernet, supported protocols	TCP/IP

Feature	Value
Peak current, load supply	8 A
Permissible range, logic voltage	± 15 %
CE symbol (see declaration of conformity)	according to EU-EMV guideline
Storage temperature	-10 ... 60 °C
Relative air humidity	0 - 90 % non-condensing
Sound pressure level	38 dB(A)
Protection class	IP20
Ambient temperature	10 ... 45 °C
Speed at max. torque	0.2 m/s
Motor holding torque	0.127 Nm
Max. force Fz	150 N
Max. torque Mx	2 Nm
Max. torque My	0.5 Nm
Max. torque Mz	2 Nm
Nominal torque	0.127 Nm
Rated load with maximum dynamic response	0.5 kg
Product weight	4,700 g
Number of 24 V DC digital logic outputs	5
Number of digital logic inputs	9
Communications profile	FHPP
Process interface	I/O coupling for 64 position sets
Specification, logic input	Based on IEC 61131-2
Logic input working range	24 V
Logic input characteristics	galvanically connected to logic potential
Switching logic, outputs	NPN (negative switching)
Input circuit logic	NPN (negative switching)
Communication interface, logic	CAN DS 301 E/A 64pos Ethernet - TCP/IP
Mounting type	With through-hole and screw
Materials note	Conforms to RoHS