

# Planar surface gantry EXCM-30-

Part number: 2226101

FESTO



## Data sheet

Feature	Value
Size	30
Controller operating mode	PWM MOSFET power output stage Cascade controller with P position controller PI speed controller PI current regulator
Mode of operation	Micro step, 2000 steps/rev.
Mounting position	Any
Position sensor	Encoder
Line filter	Integrated
Protective function	I <sup>2</sup> t monitoring Temperature monitoring Current monitoring Voltage failure detection Contouring error monitoring Software end position detection
Structural design	Planar surface gantry
Type of interpolation	Linear interpolation
Motor type	Stepper motor
Position mode	Block selection mode Transfer position directly
Safety function	Safe torque off (STO)
Display	7-segment LED
Max. acceleration	10 m/s <sup>2</sup> ...20 m/s <sup>2</sup>
Max. speed	0.5 m/s...1 m/s
Repetition accuracy	±0.05 mm
Braking resistor	15 Ohm
Characteristics of digital logic outputs	Not galvanically isolated
Duty cycle	100%
Max. current of digital logic outputs	100 mA
Nominal voltage, logic supply DC	24 V
Nominal voltage, load supply DC	24 V...48 V
Parameterization interface	Ethernet

Feature	Value
Position control	yes
Ethernet, supported protocols	TCP/IP
Permissible range of logic voltage	± 15 %
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 % Non-condensing
Noise level	52 dB(A)
Degree of protection	IP20
Ambient temperature	10 °C...45 °C
Motor holding torque	0.5 Nm
Max. driving torque	0.2 Nm
Max. force Fz	1345 N
Max. torque Mx	5.5 Nm
Max. torque My	10.9 Nm
Max. torque Mz	5.5 Nm
Max. process force in Z direction	100 N
Nominal torque	0.04 Nm
Guide value rated load, horizontal	3 kg
Guide value rated load, vertical	2 kg
Feed constant	38 mm/U
Number of digital logic outputs 24 V DC	5
Number of digital logic inputs	8
Communication profile	FHPP
Process interfacing	I/O coupling For 31 blocks
Logic input specification	Based on IEC 61131-2
Work range of logic input	24 V
Characteristics of logic input	Galvanically connected to logic potential
Input switching logic	NPN (negative switching) PNP (positive switching)
Switching logic at outputs	NPN (negative switching) PNP (positive switching)
Logic communication interface	CAN DS 301 I/O 31pos Ethernet - TCP/IP
Type of mounting	Profile mounting
Note on materials	RoHS-compliant