

Product data sheet

Specifications



Lexium motion servo drive Controller - 24 V DC - 0.3 A

LMC10

⚠ Discontinued on: Aug 8, 2025

⚠ Discontinued

Main

Range of product	Lexium Controller
Product or component type	Motion servo drive controllers
Component name	LMC
Type of polarization	10 kOhm Modbus protocol

Complementary

power supply voltage	24 V
power supply circuit type	DC
power supply voltage limits	19...30 V
Maximum supply current	0.3 A
Inrush current	10 A 0.2 ms
Discrete input number	1 master encoder 2 event-triggered 2 touch probe 8 discrete
Discrete input type	12 mA master encoder input 2 kOhm 7 mA discrete input 3 kOhm 7 mA event-triggered input 3 kOhm 7 mA touch probe input 3 kOhm
Discrete input voltage	5.5 V DCmaster encoder input 24 V DC 19...30 V)discrete input 24 V DC 19...30 V)event-triggered input 24 V DC 19...30 V)touch probe input
Discrete input logic	Positive logic (source) discrete input
Electrical connection	1 HE-10 connector discrete input 1 HE-10 connector event-triggered input 1 HE-10 connector touch probe input 1 high density 15-way female SUB-D connector master encoder input
Filter time	0.5 μs at state 0 touch probe 1 μs at state 1 touch probe 15 μs at state 1 discrete 15 μs at state 1 event-triggered 70 μs at state 0 discrete 70 μs at state 0 event-triggered
Insulation	Discrete input between input channels with internal logic via optical coupler Event-triggered input between input channels with internal logic via optical coupler Logic output between output channels with internal logic via optical coupler Master encoder input 2500 V Touch probe input between input channels with internal logic via optical coupler

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Input compatibility	Encoder with open collector output, 5 V power supplied master encoder Encoder with push-pull output, 5 V power supplied master encoder Encoder with RS422 compatible differential outputs, 5 or 24 V power supplied master encoder Universal encoder with SSI output, 24 V power supplied master encoder
Discrete output number	8
Discrete output logic	2 positive logic (source)
Discrete output voltage	24 V DC 19...30 V
Discrete output current	200 mA
Maximum output short-circuit current	1 A
Response time	150 µs at state 1 logic output 250 µs at state 0 logic output
Memory type	Flash EPROM 1 MB application NVRAM 60 kB data storage RAM 1 MB application
Realtime clock	Built-in 20 days
Application structure	1 master task 1 auxiliary task 2 event-triggered tasks
Cycle time	2 ms for 4 synchronized axes 4 ms for 8 synchronized axes
Exact time for 1 Kinstruction	< 120 µs in structured language, 60 % Boolean, 20 % numerical, 20 % floating point)
Communication port protocol	Modbus protocol CANopen Motionbus
Connector type	1 RJ45 Modbus protocol 9-way male SUB-D connector CANopen Motionbus
Physical interface	2-wire RS 485 Modbus protocol
Mode of transmission	RTU Modbus protocol
Transmission rate	1 Mbps 49.2 ft (15 m) CANopen Motionbus 19.6 kbps or 38.4 kbps Modbus protocol 250 kbps 820.2 ft (250 m) CANopen Motionbus 500 kbps 262.5 ft (80 m) CANopen Motionbus
Method of access	Master CANopen Motionbus Slave Modbus protocol
Data format	8 bits, no parity, 1 stop Modbus protocol
Number of addresses	1...247 Modbus protocol
Installed device	8 Lexium 05 or Lexium 15 servo drives or SD3 28A stepper drives CANopen Motionbus
Communication service	2 PDOs per slave (1 transmit and 1 receive) CANopen Motionbus 2 SDOs per cycle (1 read and 1 write) CANopen Motionbus CiA DSP 301 V4.02 CANopen Motionbus CiA DSP 405 CANopen Motionbus Emergency CANopen Motionbus Note guarding, heartbeat CANopen Motionbus Configurable time out Modbus protocol Diagnostics (08) Modbus protocol Read device identification (43) Modbus protocol Read holding registers (03), 121 words maximum Modbus protocol Write multiple registers (16), 121 words maximum Modbus protocol Write single register (06) Modbus protocol
Local signalling	1 LED - activity Modbus protocol
Marking	CE
Net weight	1.468 lb(US) (0.666 kg)

Environment

Electromagnetic compatibility	Electrostatic discharge level 3 conforming to EN/IEC 61000-4-2 Immunity to electrical transients level 4 conforming to EN/IEC 61000-4-4 Immunity to radiated radio-electrical interference level 3 conforming to EN/IEC 61000-4-3 Voltage/current impulse level 3 conforming to EN/IEC 61000-4-5
Standards	EN/IEC 61800-5-1 EN/IEC 61800-3 environment 1 EN/IEC 61800-3 environment 2
Product certifications	GOST CCC CSA UL C-Tick
IP degree of protection	IP20
Vibration resistance	1 gn (f= 13...200 Hz) conforming to EN/IEC 60068-2-6 1.5 mm (f= 5...13 Hz) conforming to EN/IEC 60068-2-6
Shock resistance	15 gn 11 ms EN/IEC 60068-2-27
Relative humidity	10...95 % for operation, without condensation 5...95 % for storage, without condensation IEC 61131-2
Ambient air temperature for operation	32...140 °F (0...60 °C)
Ambient air temperature for storage	-13...158 °F (-25...70 °C) IEC 61131-2
Operating altitude	0...2000 m

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Better



Materials and Substances

EU RoHS Directive

[Compliant](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins