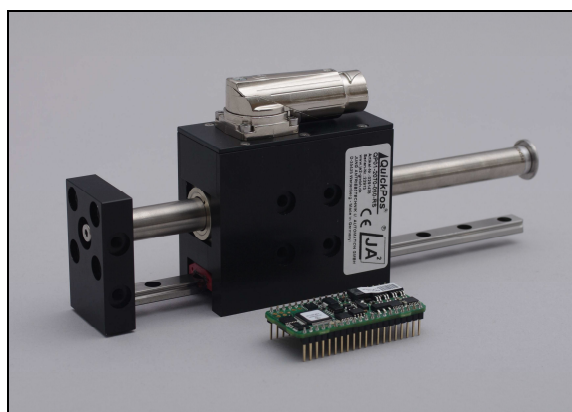


QuickPos[®] Intelligent Miniature Linear Motor Modules with Integrated Controllers

The intelligent miniature linear modules **QuickPos[®]** QP01 are high-dynamic linear motor actuators with integrated positioning controllers. **QuickPos[®]** linear modules are derived from our **HighDynamic[®]** series. They are compatible with this series, due to their mechanical interface points. As a ready-to-use construction element, they are the ideal electrical small actuator, alternatively to pneumatic solutions.



QuickPos[®] Linear Modules QP01

- linear modules with integrated tubular linear motors
- positioning controller integrated
- very compact design, low moving mass, high torsional stiffness
- precision guide with profile rail, two ball carriages with ball chains
- mechanical interface points compatible with the **HighDynamic[®]** series
- CANopen or RS232 interface for remote operation and programming
- only one connector

Mechanical Data **QuickPos[®]** Linear Modules QP01

Type	QP01-2070-040	QP01-2070-080
Operating Data		
stroke [mm]	40	80
peak force [N]	9,5 ¹⁾ / 23,5 ²⁾	
continuous force [N]	9,0	
max. speed [m/s] / accel.[m/s ²] ²⁾	2 / 50	
positioning duration [ms] / stroke [mm]	70 / 40 ²⁾ ³⁾	100 / 80 ²⁾ ³⁾
positioning duration [ms] / stroke [mm]	100 / 40 ²⁾ ⁴⁾	120 / 80 ²⁾ ⁴⁾
positioning accuracy [mm]	+/- 0,06	
absolute accuracy [mm]	+/- 0,2 over the entire stroke	
dimensions B x H [mm]	35 x 65 without connector	
overall length [mm]	145	193
moving mass without motor [g]	83	90
moving mass of motor [g]	98	140
total weight with motor [g]	670	720
operating temperature [°C]	0 bis 45	
protection class	IP20	

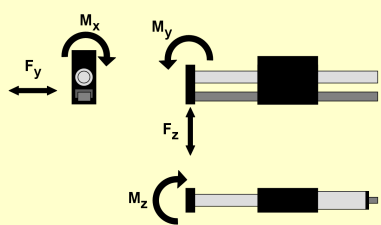
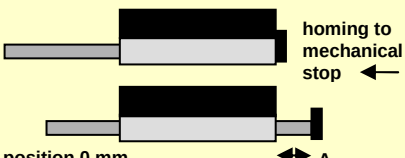
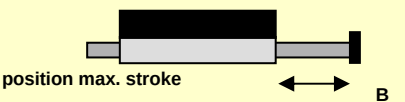
¹⁾ For 12 VDC supply voltage!

²⁾ For 24 VDC supply voltage!

³⁾ load mass 100 gramm

⁴⁾ load mass 400 gramm

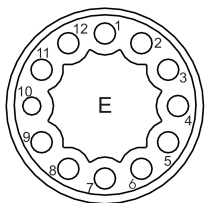
Mechanical Data Linear Modules QP01 continuation

Type	QP01-2070-040	QP01-2070-080
Operating Data		
	$F_y / F_z = 120 \text{ N} / 120 \text{ N}$ $M_x / M_y / M_z = 16 \text{ Nm} / 12 \text{ Nm} / 12 \text{ Nm}$ milage > 50.000 km Displayed performance applies at maintenance intervalls every 5.000 km or every 6 months! Lubrication: THK-grease AFA for general applications, Klübersynth UH1 14-151 for FDA applications	
	A = 10 mm	A = 14 mm
	B = 50 mm	B = 94 mm

STEP files on demand!

Electrical Data & Connections Linear Modules QP01

Type	QP01-2070
Operating Data	
supply voltage [VDC]	10 - 30
max. supply current [A]	3,0
programming and remote operation	RS232 or CANopen interface
2 inputs freely programmable	24 V PLC-level
1 output freely programmable	24 V open collector NPN, max. 30 mA
connector	12-poles turnable angle connector with bayonett
included in supply	custom connector and 12 crimp contact pins for custom confectionisation

Connector		
angle connector 12-pole (m)		
contact-pin.	signal	
1	GND	
2	+10 - 30 VDC	
5	IN1	
6	IN2	
10	OUT1	
11	TxD / CAN_H	
12	RxD / CAN_L	
housing		

Electrical Options	
function	options key
with CANopen interface	QP01-2070-XXX-CO
with RS232 interface	QP01-2070-XXX-RS

Technical changes reserved!
 Revision: 21.02.2018
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