

LINEAR ROTARY MOTORS

PR02-70

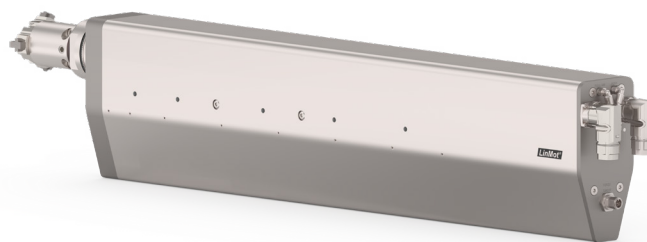


- ✓ Screwing, assembling, sealing, handling
- ✓ Independent linear and rotary motions
- ✓ Option integrated MagSpring for load compensation (pushing or pulling)
- ✓ Optional integrated torque measuring shaft and force sensor for high-precision torque or force control and process data logging
- ✓ Option hollow shaft for applications with air feed-through / vacuum
- ✓ Option pusher for opening grippers or ejecting parts
- ✓ Optional 3-finger parallel gripper
- ✓ Option front flange and linear rotary shaft in stainless steel for the food or pharmaceutical sector with special requirement for cleaning gripper

Product description

The PR02-70 motor series features a design in which the motors including additional components are integrated in a slim housing. In addition to the linear motor and the rotary motor, further options such as an air feed-through, a pneumatic pusher, a magnetic spring "MagSpring" and a torque and/or force sensor can be installed. The module is also available with a 3-finger parallel gripper as an option.

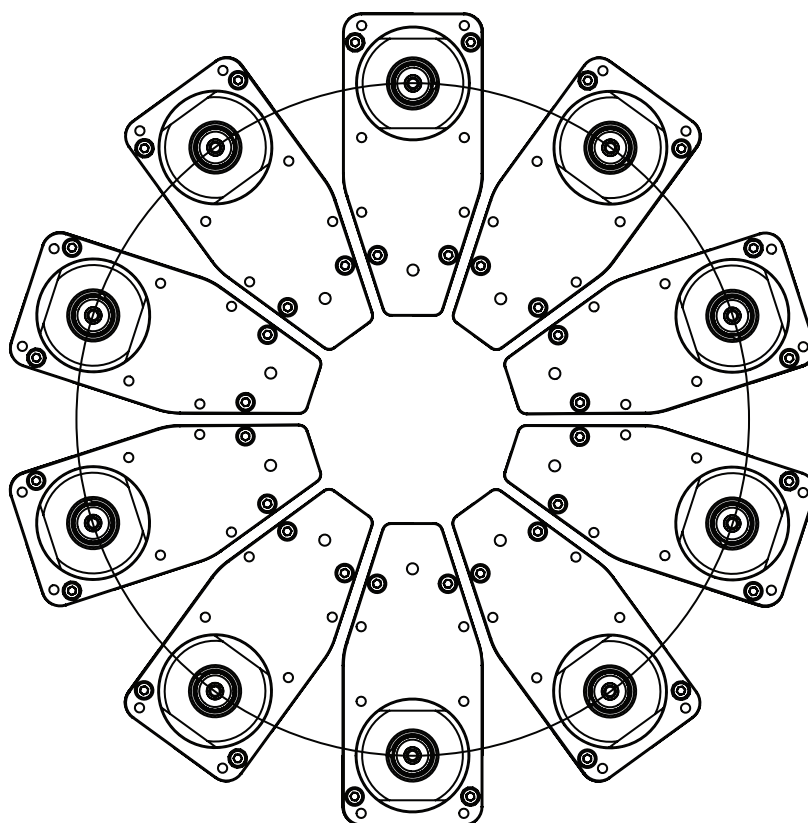
With the help of the air feed-through through the hollow shaft, pneumatic grippers can be actuated or vacuum applications can be easily realised. Alternatively, the pneumatic pusher can be used as an independent second linear movement to actuate grippers in a mechanical manner, for example, or to eject gripped elements in a simple and targeted manner. An integrated MagSpring ensures that the weight force of the moving load is passively compensated and also prevents the axis from lowering in the de-energised state. The optional force and torque sensor enables precise, reproducible and



recordable closing processes, as required in the pharmaceutical industry, for example.

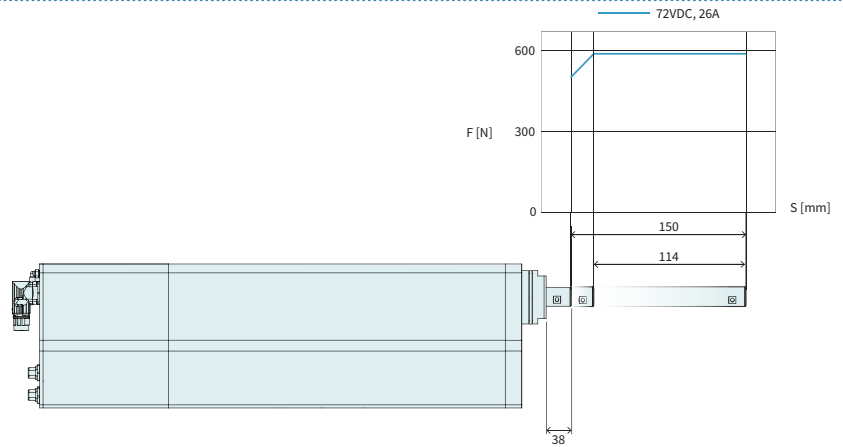
With the new design, users also benefit from the shorter installation length of the entire unit and the hygienic design with easy-to-clean surfaces. The special design enables the arrangement of several linear rotary motors on the smallest pitch circle. This makes it easy to realize new rotary transfer machines with very compact diameters.

Mounting example for turntable with diameter 360mm



PR02-70x100(-SSC)-C_48x240F-HP-C-150-Lxx_MSxx_TS0x_FS0x

Max. Stroke: 150 mm
Max. Force: 572 N
Max. Torque: 9 Nm



Dimensions in mm

MOTOR DATA			
PR02-70x100(-SSC)-C_48x240F-HP-C-150-Lxx_MSxx_TS0x_FS0x			
Linear Motion			
Extended Stroke ES	mm (in)	150 (5.91)	
Standard Stroke SS	mm (in)	114 (4.49)	
Peak Force	N (lbf)	572 (129)	
Constant Force @ 25 °C ¹⁾	N (lbf)	201 (45.2)	
Force Constant	N/A _{pk} (lbf/A _{pk})	22 (4.9)	
Max. Current @ 72VDC	A _{pk}	26	
Max. Velocity @ 72VDC	m/s (in/s)	3.01 (118.9)	
Position Repeatability	mm (in)	±0.05 (±0.002)	
Linearity	%	±0.5	
Rotary Motion			
Peak Torque (± 10%)	Nm (lbfin)	9 (80.1)	
Constant Torque (Halt) @ 25 °C ¹⁾	Nm (lbfin)	2.06 (18.3)	
Max. Number of revolutions	rpm	1000	
Torque Constant 1	Nm/A _{pk} (lbfin/A _{pk})	0.36 (3.19)	
Torque Constant 2	Nm/A _{rms} (lbfin/A _{rms})	0.509 (4.52)	
Max. Current @ 72VDC	A _{pk} / A _{rms}	25 / 17.4	
Position Repeatability	°	±0.1	

Mechanical Data										
Options		without	MS04: Load Compensation		Lxx: with Linear Rotary Shaft			TS04	FS04	SSC
			MS04/ MS54	MS08/ MS58	Hollow Shaft -L01	Pn. Pusher -L05	El. Pusher -L15	3-Finger Parallel Gripper -L31	Torque Sensor	Force Sensor
Total weight Modul	g	14900	+1100	+0	+150	tbd	+650	+50	+0	tbd
Weight moving mass	g	3020	+185	+0	+150	tbd	+650	+0	+0	tbd
Width	mm (in)									
Height	mm (in)									
Length (without Connectors)	mm (in)									
Rotary Torque of Inertia	kgcm² (lbf²)									
Weight Compensation MagSpring ²⁾	N		60/-60	100/-100						
Weight Compensation MagSpring ²⁾	lbf		13.48/-13.48	22.48/-22.48						
Through bore-hole Lxx										
Axle Diameter	mm (in)									
Protection Class										

* FlowRate @0.5 MPa = 75 ±5 l/min

1) Value depends on 2nd motor (see LinMot Designer)

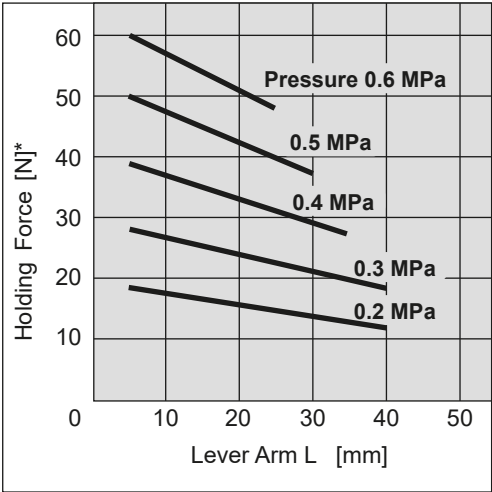
2) Effective load compensation dependent on module -specific friction and moving net mass & load mass.

Integrated Sensors				
			Torque Sensor (Optional)	Force Sensor (Optional)
Supply Voltage	VDC		24	
Measuring Range	Nm (lbf·in)	N (lbf)	±9 (±78.8)	±300 (±67.5)
Boundary Frequency -3dB	kHz		1	4.4
Output Signal	VDC		±10	
Current Consumption	mA		<200	
Zero Offset	mV		<±100	
Mechanical Overload	%		200	300
Resolution (C1200)	Bit		12	
Linearity	Nm (lbf·in)	N (lbf)	±0.09 (±0.81)	±3 (±0.675)

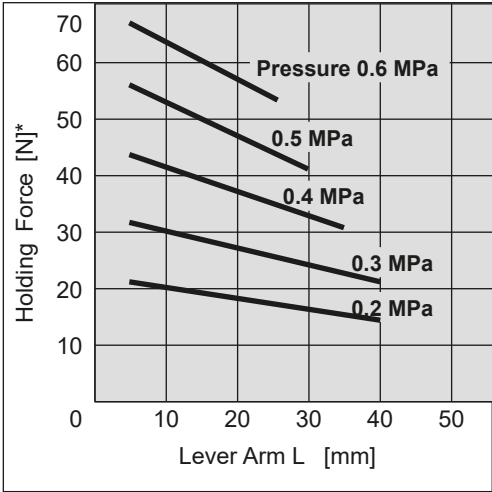
Electric / Pneumatic Pusher		
Peak Force (El. / Pn. @ 6 bar)	N (lbf)	255 / 275 (50.6 / 61.8)
Nominal Force (El. Pusher)	N (lbf)	50 (11.2)
Outer Diameter Centre Axle	mm (in)	6 (0.23)
Max. Stroke (Pusher)	mm (in)	25 (0.98)
Torsion Protection	Nm (lbf·in)	2 (17.5)

Technical data 3-finger parallel gripper		
Medium		Pressured air
Operating pressure	MPa	0,2 - 0,6
Ambient and media temperature	°C	-10 -60 (not freezing)
Repeatability	mm (in)	+ - 0.01
Max. operating frequency	1/min	120
Lubrication		Not needed
Technology		Double-acting pneumatic cylinder
Effective holding force at a pressure of 0,5 MPa (20 mm finger length)	N	Outside gripping / Inside gripping 42 / 47
Opening/closing width	mm (in ø)	12 (0.47)

External grip



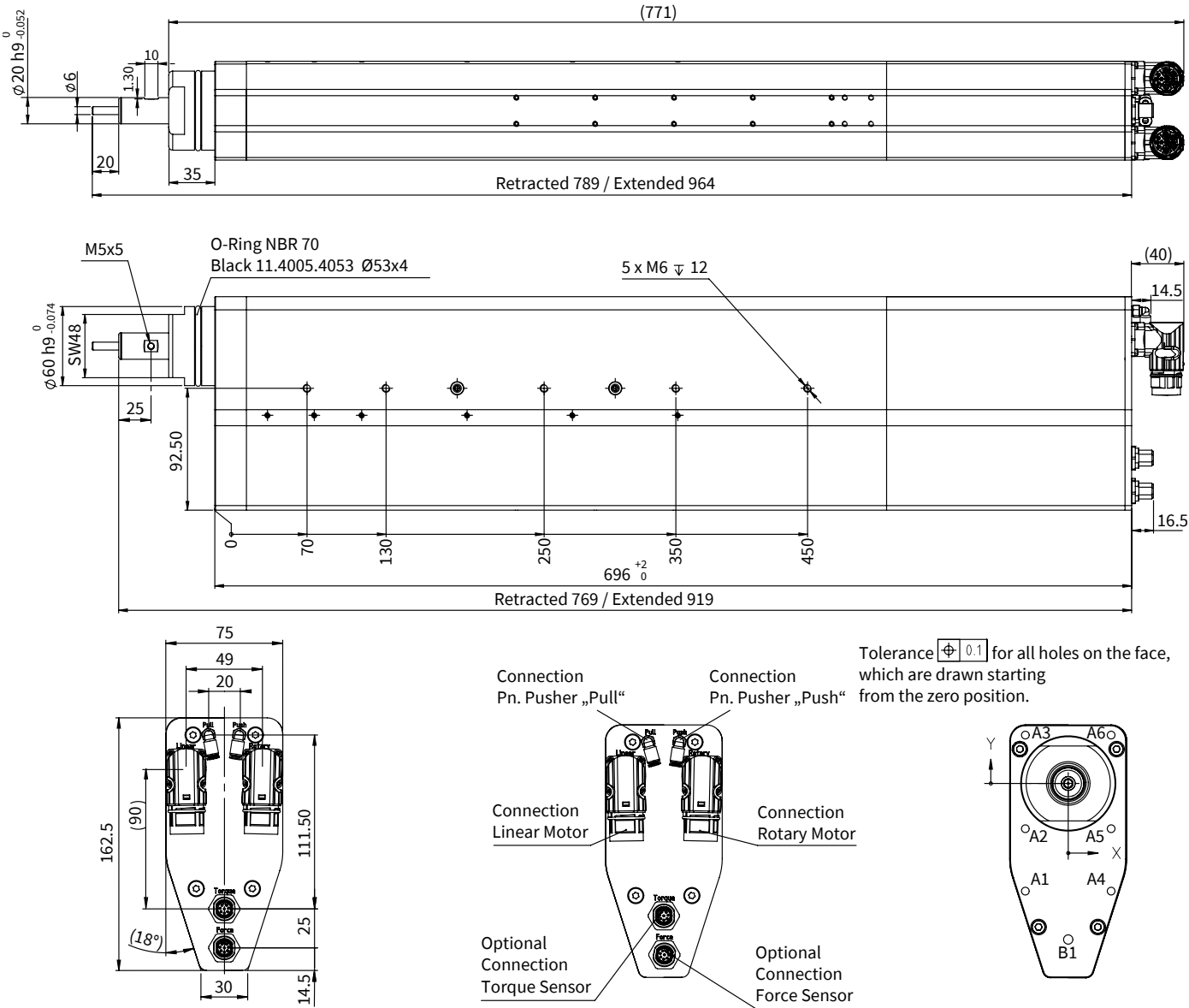
Internal grip



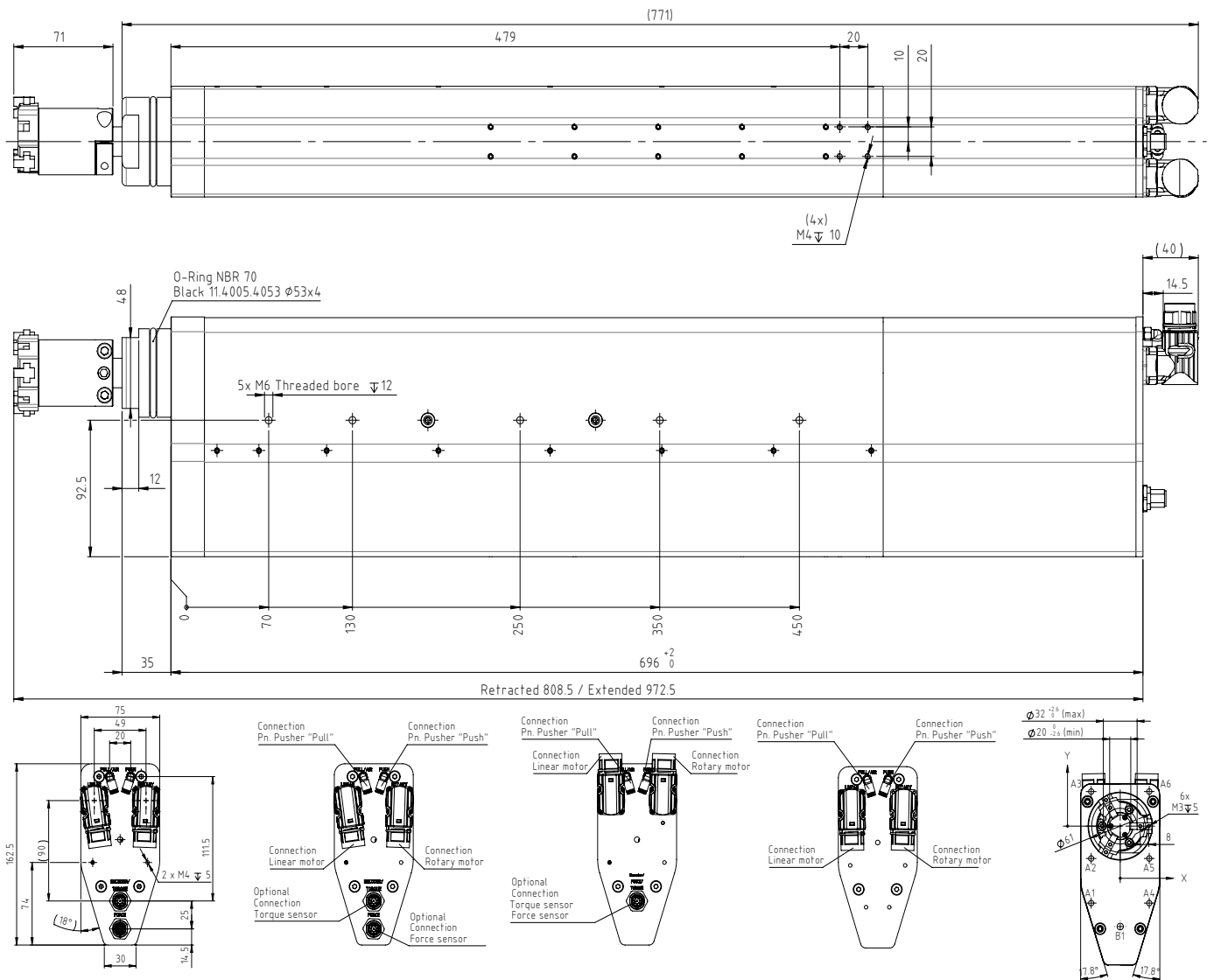
[illegible]

	X-Pos.	Y-Pos.	
A1	-27.50	-69	M6 ∇ 12
A2	-27.50	-29	
A3	-27.50	31	
A4	27.50	-69	
A5	27.50	-29	
A6	27.50	31	
B1	0	-90	ϕ 6 H7 $^{+0.012}_0 \nabla$ 10

DIMENSIONS PR02-70X100(-SSC)-C_48X240F-HP-C-150-L05_MSXX_TSXX_FSXX (OPTION PNEUMATIC PUSHER)



	X-Pos.	Y-Pos.	
A1	-27.50	-69	M6 $\nabla 12$
A2	-27.50	-29	
A3	-27.50	31	
A4	27.50	-69	
A5	27.50	-29	
A6	27.50	31	
B1	0	-90	$\varnothing 6$ H7 $^{+0.012}_0$ $\nabla 10$

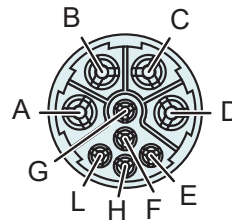
DIMENSIONS PR02-70X100(-SSC)-C_48X240F-HP-C-150-L15_MSXX_TSXX_FSXX (OPTION ELECTRIC PUSHER)

[illegible]

	X-PQS.	Y-PQS.	
A1	-27.50	-69	$\varnothing 5 \begin{smallmatrix} \nabla \\ 17 \end{smallmatrix}$ $M6 - 6H \begin{smallmatrix} \nabla \\ 12 \end{smallmatrix}$
A2	-27.50	-29	
A3	-27.50	31	
A4	27.50	-69	
A5	27.50	-29	
A6	27.50	31	
B1	0	-90	$\varnothing 6 H7 \begin{smallmatrix} +0.012 \\ 0 \end{smallmatrix} \begin{smallmatrix} \nabla \\ 10 \end{smallmatrix}$

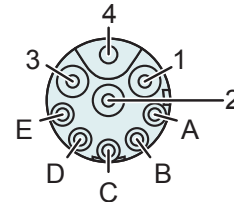
CONNECTORS

Motor Connector Wiring	Linear Unit: C-Connector	Rotary Unit: C-Connector	Wire Color Motor Cable
Ph 1+ / Ph A	A	A	red
Ph 1- / Ph B	B	B	pink
Ph 2+ / Ph C	C	C	blue
Ph 2- / (-)	D	D (not connected)	grey
+5VDC	E	E	white
GND	F	F	inner shield
Sin	G	G	yellow
Cos	H	H	green
Temp.	L	L	black
Shield	Housing	Housing	outer shield

C-Connector

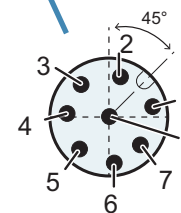
View: Motor connector, plug on

Connector Wiring	El. Pusher R-Connector	Wire Color Motor Cable
Ph 1+ / Ph A	1	red
Ph 1- / Ph B	2	pink
Ph 2+ / Ph C	3	blue
Ph 2- / (-)	4	grey
+5VDC	A	white
GND	B	inner shield
Sin	C	yellow
Cos	D	green
Temp.	E	black
Shield	Housing	outer shield

R-Connector

Ansicht: Motorstecker, steckseitig

Connector Wiring	Torque- / Force Sensor M12 Connector (A-coded)	Wire Color Sensor Cable
Supply GND	1	white
Supply 24V (approx. 80 mA @ 24VDC)	2	brown
Do not connect	3	green
Torque / Force -	4	yellow
Torque / Force +	5	grey
AGND / Reference ground for force sensor signal (Isolated from PGND, connect to reference GND of analog input on servo drive.)	6	pink
Do not connect	7	blue
Do not connect	8	red

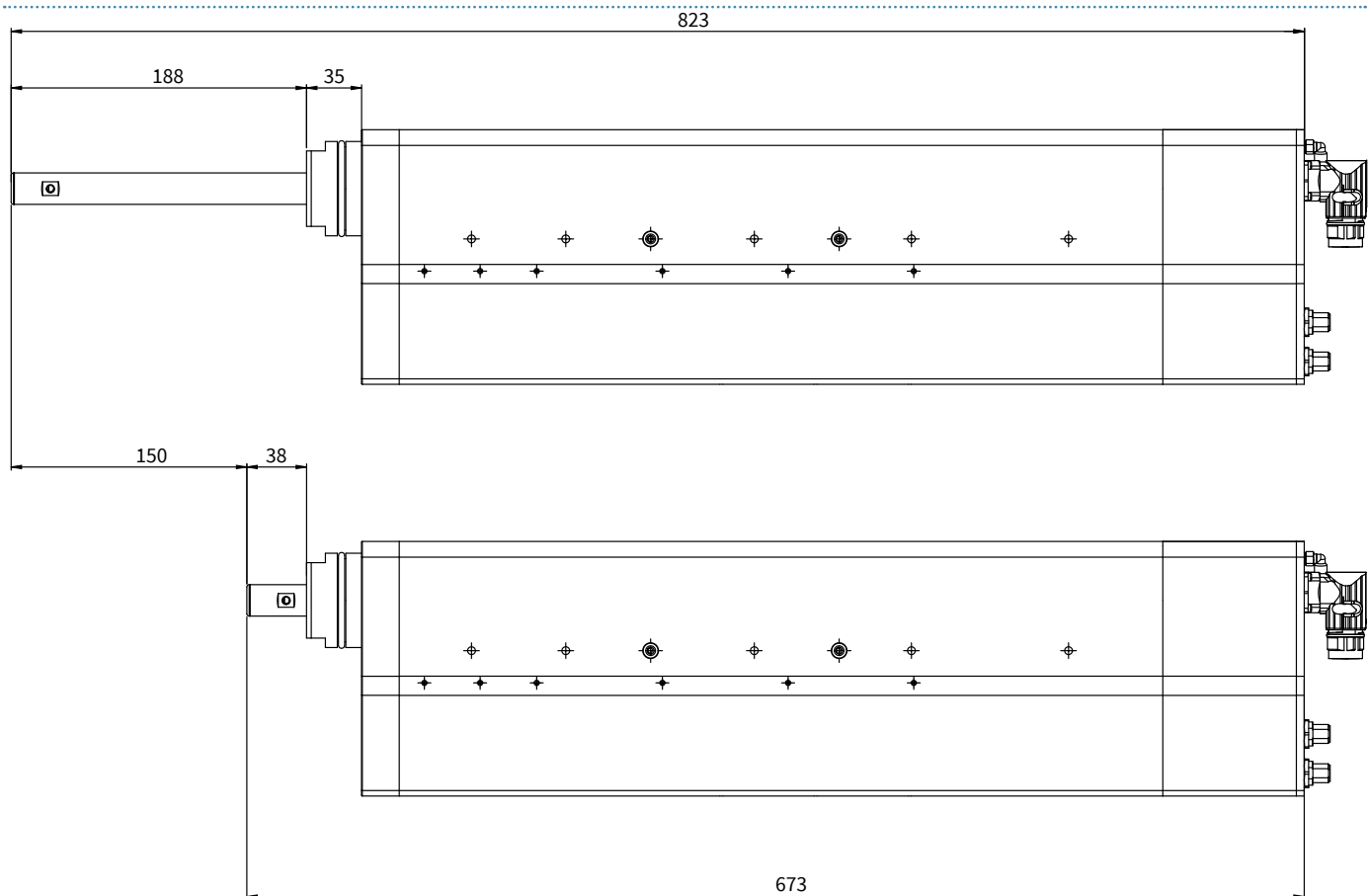
M12-Connector (A-coded)View:
Motor connector, plug on

PIN 4 (torque / force -) and PIN 1 (supply GND) are internally galvanically isolated and must not be connected to each other. Please read installation guide for any exceptions.

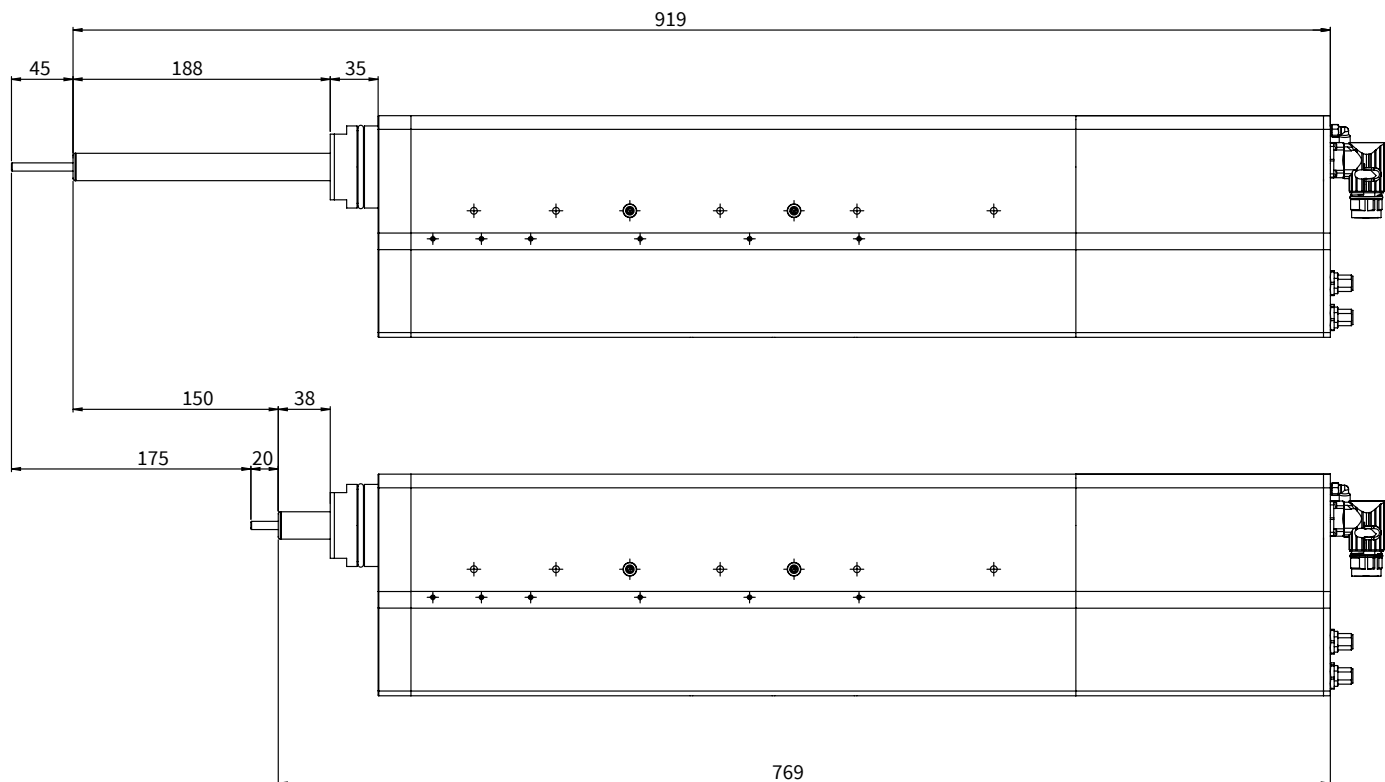
External EMC circuitry

A ceramic capacitor 100nF / 50V can be soldered between pins 4 - 5 on the evaluation to avoid wire-bound interference.

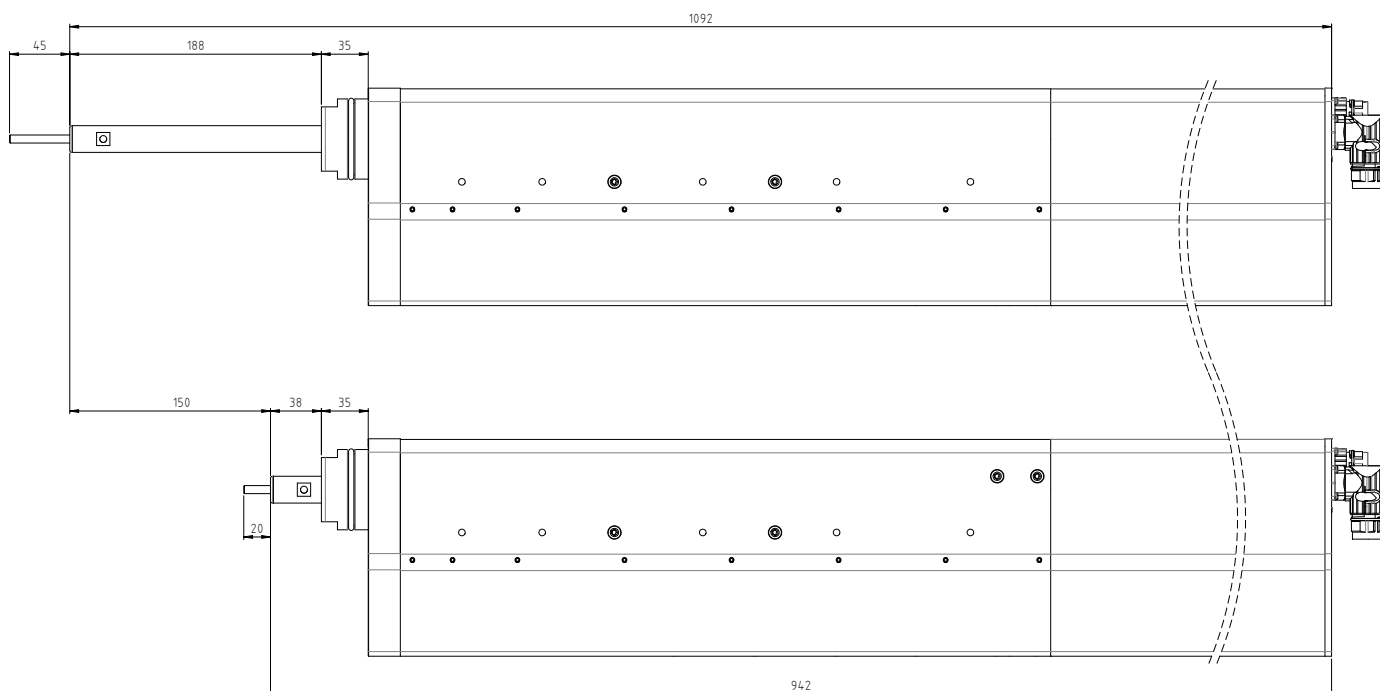
MAX. STROKE PR02-70X100(-SSC)-C_48X240F-HP-C-150(-L01)_MSXX_TSXX_FSXX
(OPTION FULL SHAFT OR HOLLOW SHAFT)



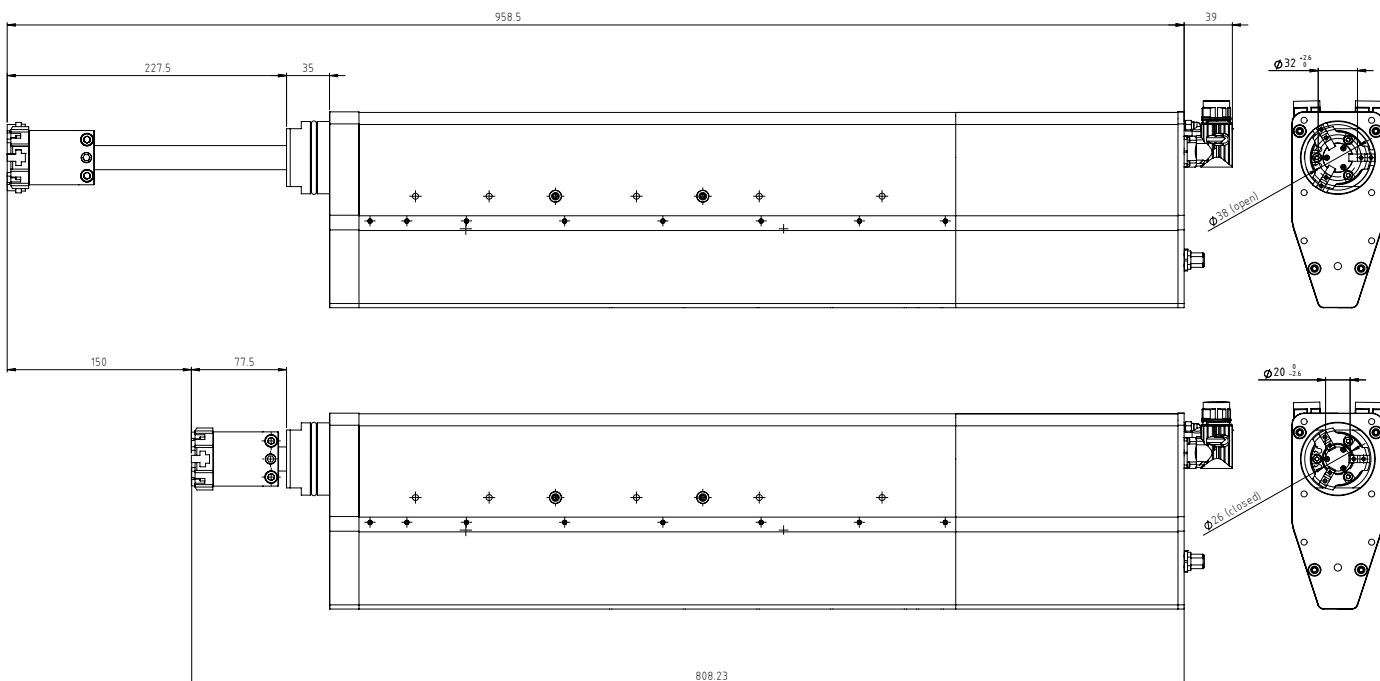
MAX. STROKE PR02-70X100(-SSC)-C_48X240F-HP-C-150-L05_MSXX_TSXX_FSXX (OPTION PNEUMATIC PUSHER)



MAX. STROKE PR02-70X100(-SSC)-C_48X240F-HP-C-150-L15_MSXX_TSXX_FSXX (OPTION ELECTRIC PUSHER)

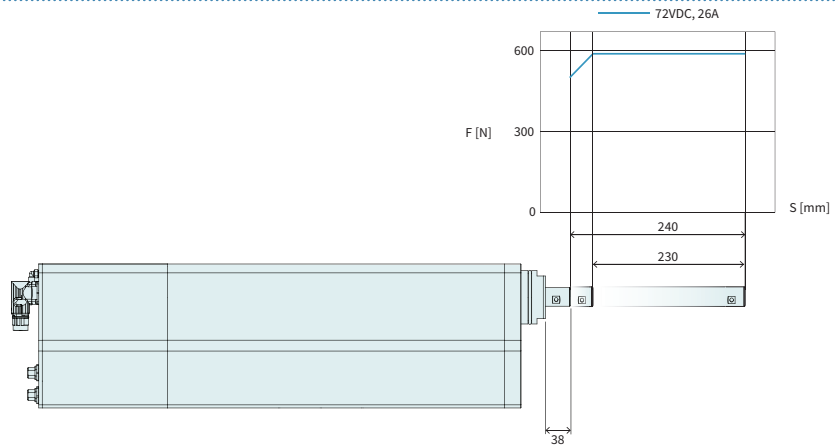


MAX. STROKE PR02-70X100(-SSC)-C_48X240F-HP-C-150-L31_MSXX_TSXX_FSXX (OPTION 3-FINGER PARALLEL GRIPPER)



PR02-70x100(-SSC)-C_48x240F-HP-C-240-L0x_MSxx_TS0x_FS0x

Max. Stroke: 240 mm
Max. Force: 572 N
Max. Torque: 9 Nm



MOTOR DATA

PR02-70x100(SSC)-C_48x240F-HP-C-240-L0x_MSxx_TS0x_FS0x

Linear Motion

Extended Stroke ES	mm (in)	240	(9.45)
Standard Stroke SS	mm (in)	230	(9.06)
Peak Force	N (lbf)	572	(129)
Constant Force @ 25 °C ¹⁾	N (lbf)	201	(45.2)
Force Constant	N/A _{pk} (lbf/A _{pk})	22	(4.9)
Max. Current @ 72VDC	A _{pk}	26	
Max. Velocity @ 72VDC	m/s (in/s)	3.01	(118.9)
Position Repeatability	mm (in)	±0.05	(±0.002)
Linearity	%	±0.35	

Rotary Motion

Peak Torque (± 10%)	Nm (lbf·in)	9	(80.1)
Constant Torque (Halt) @ 25 °C ¹⁾	Nm (lbf·in)	2.06	(18.3)
Max. Number of revolutions	rpm	1000	
Torque Constant 1	Nm/A _{pk} (lbf·in/A _{pk})	0.36	(3.19)
Torque Constant 2	Nm/A _{rms} (lbf·in/A _{rms})	0.509	(4.52)
Max. Current @ 72VDC	A _{pk} / A _{rms}	25 / 17.4	
Position Repeatability	°	±0.1	

Mechanical Data

Options		without	MS04: Load Compensation		Lxx: Linear Rotary Shaft			TS04	FS04	SSC
			MS04/ MS54	MS08/ MS58	Hollow Shaft -L01	Pn. Pusher -L05	3-Finger Parallel Gripper -L31	Torque Sensor	Force Sensor	Stainless Front
Total weight Modul	g	17000	+1840		+0	tbd	n.a.	+50	+0	tbd
Weight moving mass	g	4000	+275		+0	tbd	n.a.	+0	+0	tbd
Width	mm (in)									
Height	mm (in)									
Length (without Connectors)	mm (in)									
Rotary Torque of Inertia	kgcm ² (lbf ²)									
Weight Compensation MagSpring ²⁾	N		60/-60	100/-100						
Weight Compensation MagSpring ²⁾	lbf		13.48/ -13.48	22.48/ -22.48						
Through bore-hole Lxx			Hole diameter 4 mm; Connection (front): M5 x 15, Connection (back): Push-in fitting for hose Ø4 mm							
Axle Diameter	mm (in)									
Protection Class										

* FlowRate @0.5 MPa = 75 ±5 l/min

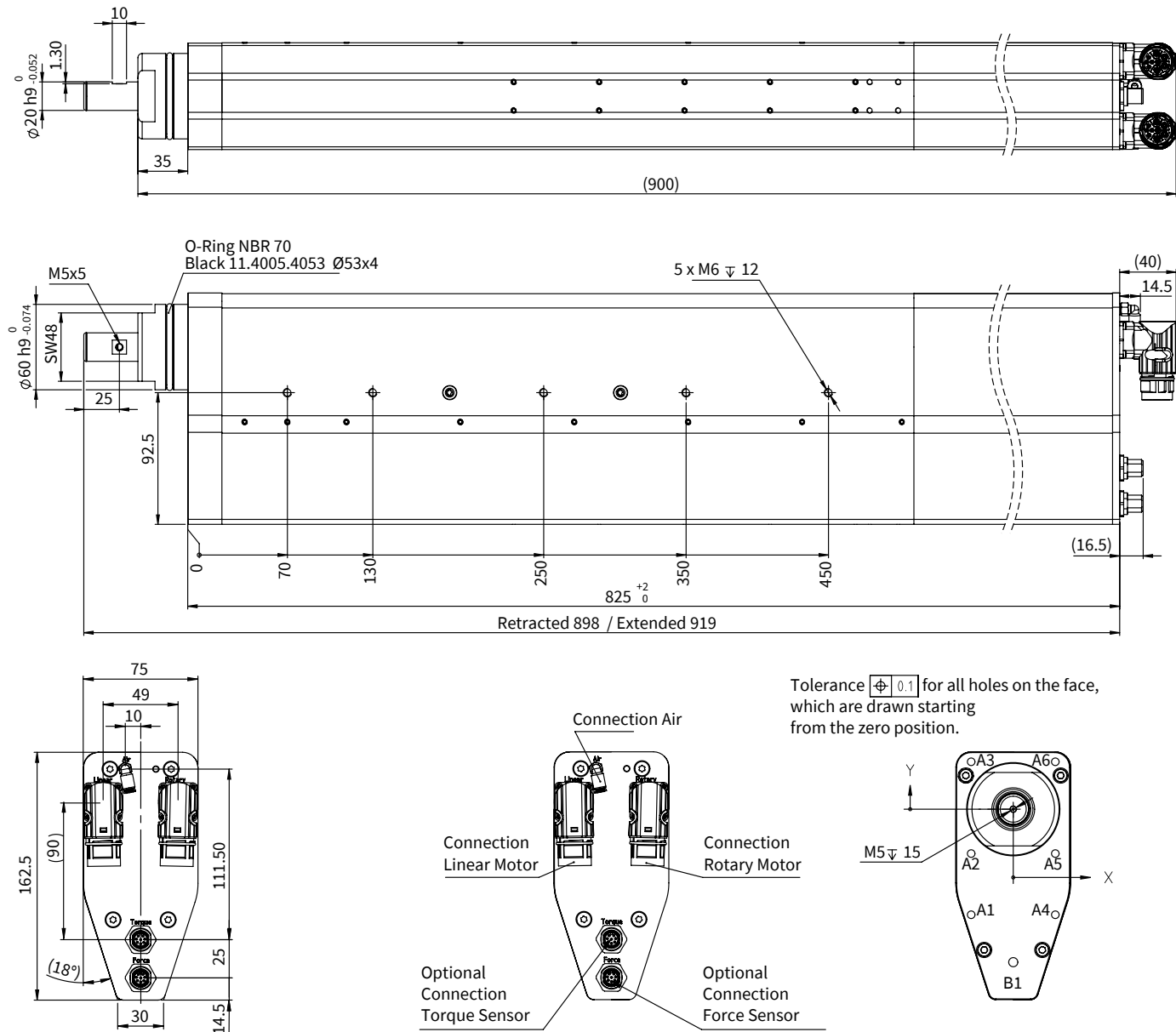
1) Value depends on 2nd motor (see LinMot Designer)

2) Effective load compensation dependent on module-specific friction and moving net mass & load mass.

Integrated Sensors				
			Torque Sensor (Optional)	Force Sensor (Optional)
Supply Voltage	VDC		24	
Measuring Range	Nm (lbfin)	N (lbf)	±9 (±78.8)	±300 (±67.5)
Boundary Frequency -3dB	kHz		1	4.4
Output Signal	VDC		±10	
Current Consumption	mA		<200	
Zero Offset	mV		<±100	
Mechanical Overload	%		200	300
Resolution (C1200)	Bit		12	
Linearity	Nm (lbfin)	N (lbf)	±0.09 (±0.81)	±3 (±0.675)

Pneumatic Pusher (Option in planning)				
Peak Force	N (lbf)		300 (67.4)	
Outer Diameter Centre Axle	mm (in)		6 (0.23)	
Max. Stroke (Pusher)	mm (in)		25 (0.98)	
Torsion Protection	Nm (lbfin)		2 (17.5)	
1) Nominal force depends on 2nd motor (see LinMot Designer).				

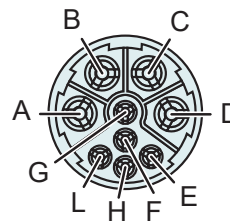
DIMENSIONS PR02-70X100(-SSC)-C_48X240F-HP-C-240-(L01)_MSXX_TSXX_FSXX
(OPTION FULL SHAFT OR HOLLOW SHAFT)



	X-Pos.	Y-Pos.	
A1	-27.50	-69	M6 ∇ 12
A2	-27.50	-29	
A3	-27.50	31	
A4	27.50	-69	
A5	27.50	-29	
A6	27.50	31	
B1	0	-90	$\varnothing$ 6 H7 $\begin{smallmatrix} +0.012 \\ 0 \end{smallmatrix}$ ∇ 10

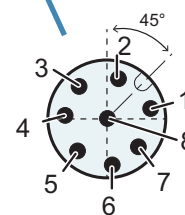
CONNECTORS

Motor Connector Wiring	Linear Unit: C-Connector	Rotary Unit: C-Connector	Wire Color Motor Cable
Ph 1+ / Ph A	A	A	red
Ph 1- / Ph B	B	B	pink
Ph 2+ / Ph C	C	C	blue
Ph 2- / (-)	D	D (not connected)	grey
+5VDC	E	E	white
GND	F	F	inner shield
Sin	G	G	yellow
Cos	H	H	green
Temp.	L	L	black
Shield	Housing	Housing	outer shield

C-Connector

View: Motor connector, plug on

Connector Wiring	Torque- / Force Sensor M12 Connector (A-coded)	Wire Color Sensor Cable
Supply GND	1	white
Supply 24V (approx. 80 mA @ 24VDC)	2	brown
Do not connect	3	green
Torque / Force -	4	yellow
Torque / Force +	5	grey
AGND / Reference ground for force sensor signal (Isolated from PGND, connect to reference GND of analog input on servo drive.)	6	pink
Do not connect	7	blue
Do not connect	8	red

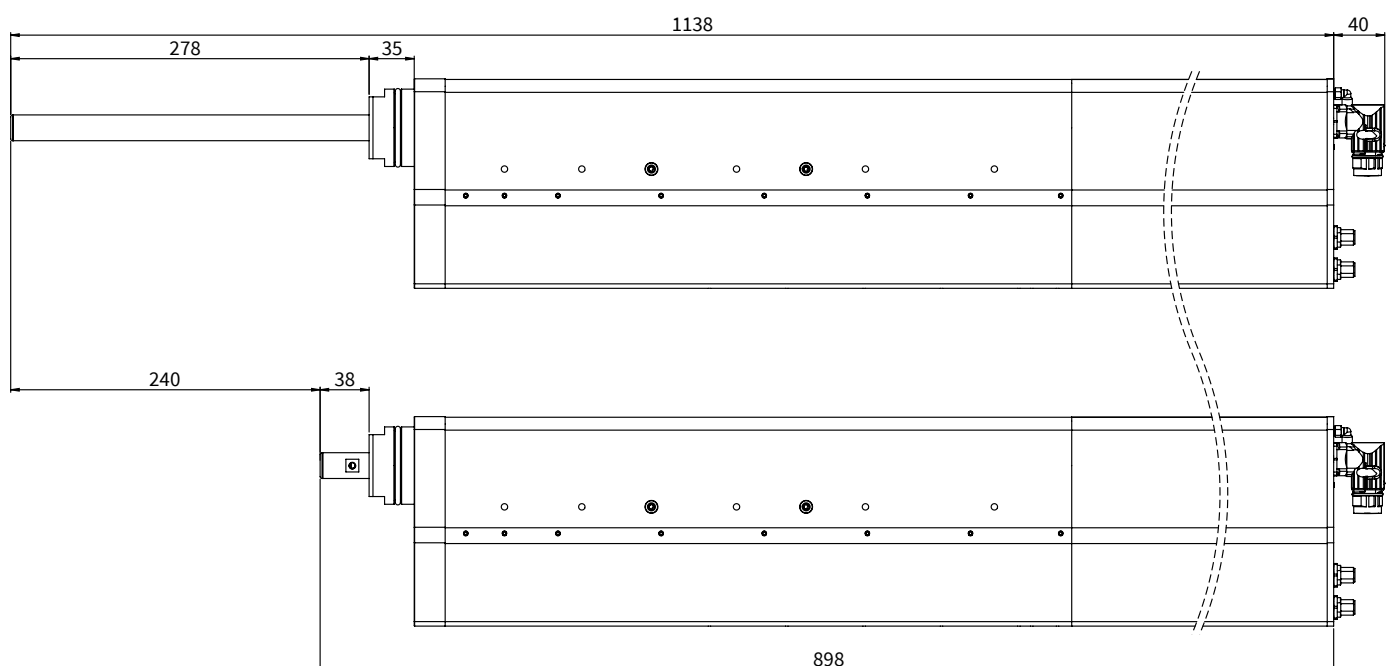
M12-Connector (A-coded)

View: Motor connector, plug on

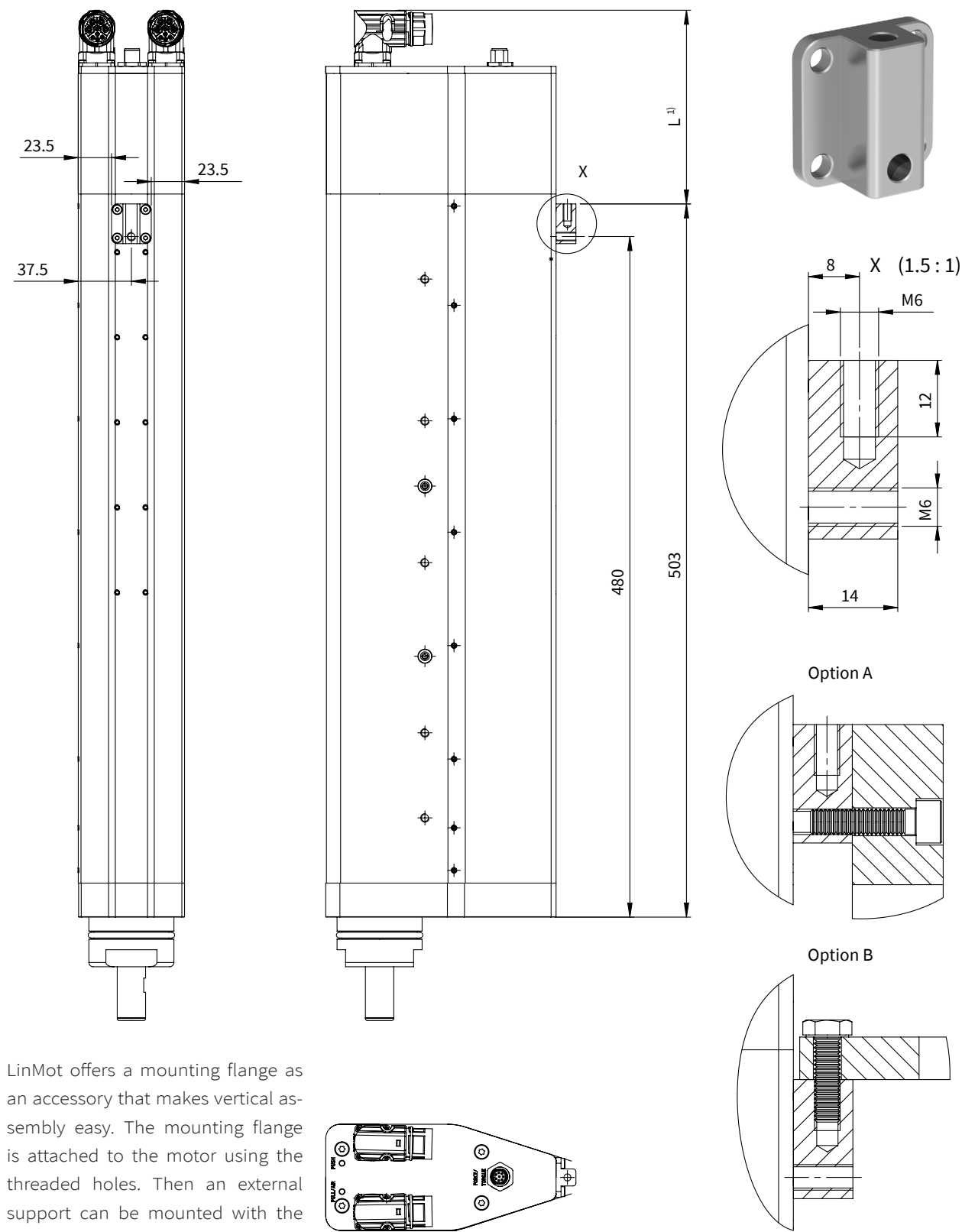
PIN 4 (torque / force -) and PIN 1 (supply GND) are internally galvanically isolated and must not be connected to each other. Please read installation guide for any exceptions.

External EMC circuitry

A ceramic capacitor 100nF / 50V can be soldered between pins 4 - 5 on the evaluation to avoid wire-bound interference.

**MAX. STROKE PR02-70X100(-SSC)-C_48X240F-HP-C-240(-L01)_MSXX_TSXX_FSXX
(OPTION FULL SHAFT OR HOLLOW SHAFT)**


MOUNTING FLANGE



LinMot offers a mounting flange as an accessory that makes vertical assembly easy. The mounting flange is attached to the motor using the threaded holes. Then an external support can be mounted with the flange according to options A or B.

1) The length L depends on the chosen PR02-70 type.

Item	Description	Item-No.
RS02-70-BF1	Mounting flange set including screws	0150-4840

ORDERING INFORMATION

LINEAR ROTARY MOTORS PR02-70		
Item	Description	Item-No.
PR02-70x100-C_48x240F-HP-C-150-L00_MS00_TS00	Linear Rotary Motor	0150-4445
PR02-70x100-C_48x240F-HP-C-150-L00_MS04_TS00	Linear Rotary Motor, MagSpring 60N	0150-4446
PR02-70x100-C_48x240F-HP-C-150-L01_MS00_TS00	Linear Rotary Motor, Hollow Shaft	0150-4449
PR02-70x100-C_48x240F-HP-C-150-L01_MS04_TS00	Linear Rotary Motor, Hollow Shaft, MagSpring 60N	0150-4450
PR02-70x100-C_48x240F-HP-C-240-L00_MS00_TS00	Linear Rotary Motor	0150-4633
PR02-70x100-C_48x240F-HP-C-240-L00_MS04_TS00	Linear Rotary Motor, MagSpring 60N	0150-4423
PR02-70x100-C_48x240F-HP-C-240-L01_MS00_TS00	Linear Rotary Motor, Hollow Shaft	0150-4972
PR02-70x100-C_48x240F-HP-C-240-L01_MS04_TS00	Linear Rotary Motor, Hollow Shaft, MagSpring 60N	0150-4973

LINEAR ROTARY MOTORS PR02-70 - OPTION STAINLESS STEEL FRONT (SSC)		
Item	Description	Item-No.
PR02-70x100-SSC-C_48x240F-HP-C-150-L01_MS04_TS00	Linear Rotary Motor, Stainless Steel Front, Hollow Shaft, MagSpring 60N	0150-5355
PR02-70x100-SSC-C_48x240F-HP-C-150-L05_MS04_TS00	Linear Rotary Motor, Stainless Steel Front, Pusher, MagSpring 60N	0150-5357
PR02-70x100-SSC-C_48x240F-HP-C-150-L25_MS04_TS00	Linear rotary motor, Stainless Steel Front, Pusher rotatable, MagSpring 60N	0150-5646
PR02-70x100-SSC-C_48x240F-HP-C-240-L00_MS00_TS04_FS04	Linear Rotary Motor, SSC Front, Torque Sensor, Force Sensor	0150-5779
PR02-70x100-SSC-C_48x240F-HP-C-150-L01_MS04_TS04	Linear Rotary Motor, Stainless Steel Front, Hollow Shaft, MagSpring 60N, TorqueS	0150-6119
PR02-70x100-SSC-C_48x240F-HP-C-240-L01_MS04_TS04_FS06	Linear Rotary Motor, SSC-Front, Hollow Shaft, MS 60N, T-Sens.9Nm, F-Sens.600N	0150-6198
PR02-70x100-SSC-C_48x240F-HP-C-150-L01_MS04_TS04_FS04	Linear Rotary Motor, SSC Front, Hollow Shaft, MagSpring 60N, Torque&Force Sensor	0150-6718

LINEAR ROTARY MOTORS PR02-70 - OPTION SENSOR (FS / TS)		
Item	Description	Item-No.
PR02-70x100-C_48x240F-HP-C-150-L00_MS00_TS04	Linear Rotary Motor, Torque Sensor	0150-4447
PR02-70x100-C_48x240F-HP-C-150-L00_MS04_TS04	Linear Rotary Motor, MagSpring 60N, Torque Sensor	0150-4448
PR02-70x100-C_48x240F-HP-C-150-L01_MS00_TS04	Linear Rotary Motor, Hollow Shaft, Torque Sensor	0150-4451
PR02-70x100-C_48x240F-HP-C-150-L01_MS04_TS04	Linear Rotary Motor, Hollow Shaft, MagSpring 60N, Torque Sensor	0150-4452
PR02-70x100-C_48x240F-HP-C-150-L01_MS00_TS00_FS04	Linear Rotary Motor, Hollow Shaft, Force Sensor	0150-4966
PR02-70x100-C_48x240F-HP-C-150-L01_MS04_TS00_FS04	Linear Rotary Motor, Hollow Shaft, MagSpring 60N, Force Sensor	0150-4967
PR02-70x100-C_48x240F-HP-C-150-L01_MS00_TS04_FS04	Linear Rotary Motor, Hollow Shaft, Torque Sensor, Force Sensor	0150-4968
PR02-70x100-C_48x240F-HP-C-150-L01_MS04_TS04_FS04	Linear Rotary Motor, Hollow Shaft, MagSpring 60N, Torque Sensor, Force Sensor	0150-4969
PR02-70x100-C_48x240F-HP-C-150-L05_MS04_TS04	Linear Rotary Motor, Pusher, MagSpring 60N, Torque Sensor	0150-4970
PR02-70x100-C_48x240F-HP-C-150-L15_MS04_TS00_FS00	Linear Rotary Motor, E-Pusher, MagSpring 60N	0150-4829
PR02-70x100-C_48x240F-HP-C-150-L15_MS04_TS00_FS04	Linear Rotary Motor, E-Pusher, MagSpring 60N, Force Sensor	0150-5320
PR02-70x100-C_48x240F-HP-C-150-L15_MS04_TS04_FS00	Linear Rotary Motor, E-Pusher, MagSpring 60N, Torque Sensor	0150-5312
PR02-70x100-C_48x240F-HP-C-150-L15_MS04_TS04_FS04	Linear Rotary Motor, E-Pusher, MagSpring 60N, Torque Sensor, Force Sensor	0150-5313

PR02-70x100-C_48x240F-HP-C-240-L00_MS00_TS04	Linear Rotary Motor, Torque Sensor	0150-4974
PR02-70x100-C_48x240F-HP-C-240-L00_MS04_TS04	Linear Rotary Motor, MagSpring 60N, Torque Sensor	0150-4975
PR02-70x100-C_48x240F-HP-C-240-L01_MS00_TS04	Linear Rotary Motor, Hollow Shaft, Torque Sensor	0150-4976
PR02-70x100-C_48x240F-HP-C-240-L01_MS04_TS04	Linear Rotary Motor, Hollow Shaft, MagSpring 60N, Torque Sensor	0150-4977
PR02-70x100-C_48x240F-HP-C-240-L01_MS00_TS00_FS04	Linear Rotary Motor, Hollow Shaft, Force Sensor	0150-4978
PR02-70x100-C_48x240F-HP-C-240-L01_MS04_TS00_FS04	Linear Rotary Motor, Hollow Shaft, MagSpring 60N, Force Sensor	0150-4979
PR02-70x100-C_48x240F-HP-C-240-L01_MS00_TS04_FS04	Linear Rotary Motor, Hollow Shaft, Torque Sensor, Force Sensor	0150-4853
PR02-70x100-C_48x240F-HP-C-240-L01_MS04_TS04_FS04	Linear Rotary Motor, Hollow Shaft, MagSpring 60N, Torque Sensor, Force Sensor	0150-4661

LINEAR ROTARY MOTORS PR02-70 - OPTION 3-FINGER PARALLEL GRIPPER (L31)

Item	Description	Item-No.
PR02-70x100-C_48x240F-HP-C-150-L31_MS00_FS04	Linear Rotary Motor, 3-Finger Parallel Gripper pn, Force Sensor	0150-7232
PR02-70x100-C_48x240F-HP-C-150-L31_MS00_TS00	Linear Rotary Motor, 3-Finger Parallel Gripper pn	0150-7222
PR02-70x100-C_48x240F-HP-C-150-L31_MS00_TS04	Linear Rotary Motor, 3-Finger Parallel Gripper pn, Torque Sensor	0150-7223
PR02-70x100-C_48x240F-HP-C-150-L31_MS00_TS04_FS04	Linear Rotary Motor, 3-Finger Parallel Gripper pn, Torque & Force Sensor	0150-7224
PR02-70x100-C_48x240F-HP-C-150-L31_MS04_FS04	Linear Rotary Motor, 3-Finger Parallel Gripper pn, MagSpring 60N, Force Sensor	0150-7233
PR02-70x100-C_48x240F-HP-C-150-L31_MS04_TS00	Linear Rotary Motor, 3-Finger Parallel Gripper pn, MagSpring 60N	0150-6927
PR02-70x100-C_48x240F-HP-C-150-L31_MS04_TS04	Linear Rotary Motor, 3-Finger Parallel Gripper pn, MagSpring 60N, Torque Sensor	0150-6926
PR02-70x100-C_48x240F-HP-C-150-L31_MS04_TS04_FS04	Linear Rotary Motor, 3-Finger Parallel Gripper pn, MagSpring 60 N, TS & FS-Sens.	0150-7225

ACCESSORIES

Item	Description	Item-No.
K05-Y/R-2	Motor Cable Y/R, 2 m	0150-2421
K05-Y/R-4	Motor Cable Y/R, 4 m	0150-2422
K05-Y/R-6	Motor Cable Y/R, 6 m	0150-2423
K05-Y/R-8	Motor Cable Y/R, 8 m	0150-2424
K05-Y-FE/R-	Motor Cable KS05-Y-Fe/R, Custom length	0150-3501
KS05-Y/R-4	Trailing Chain Cable Y/R, 4 m	0150-2433
KS05-Y/R-6	Trailing Chain Cable Y/R, 6 m	0150-2434
KS05-Y/R-8	Trailing Chain Cable Y/R, 8 m	0150-2435
KS05-Y-Fe/R-	Trailing Chain Cable KS05-Y-Fe/R, Custom length	0150-3507
CAL01_PR02_ST02	Factory Calibration, PR02 Torque Sensor, Full Range, 1%	0120-5100
CAL01_PR02_ST02_AF01	Factory Calibration, PR02 Torque Sensor, As Found, Full Range, 1%	0120-5150
CAL01_PR02_ST01	Factory Calibration, PR02 Force Sensor, Full Range, 1%	0120-5000
CAL01_PR02_ST01_AF01	Factory Calibration, PR02 Force Sensor, As Found, Full Range, 1%	0120-5050
KSS014-06-X4/SM	Sensor cable for PR02	0150-4610
RS01-SS12x22	Shaft-hub clamping for 12mm shaft	0230-0101
Hammer Nut N8/M6	Hammer Nut N8 / M6	0150-2558
RS02-BK52	Holding brake kit for Linear Rotary Motor PR02-52	0150-2987

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