SMC

Installation and Maintenance Manual

Electric Actuator / Guide Rod Type

Series LEYG

Applicable model number: (*-)LEYG*^MLA-*, (*-)LEYG*^MLB-*, (*-)LEYG*^MLC-* (*-)LEYG*^MLDA-*, (*-)LEYG*^MLDB-*, (*-)LEYG*^MLDC-*

Note: For special models LEYG* please check the appropriate drawing for the dimensions and specifications.

1 Safety Instructions

This manual contains essential information for the protection of users and others from possible injury and/or equipment damage.

- Read this manual before using the product to ensure correct handling and also read the manuals of related apparatus before use.
- Keep this manual in a safe place for future reference.
- These instructions indicate the level of potential hazard by label of "Caution", "Warning" or "Danger", followed by important safety information which must be carefully followed.
- To ensure safety of personnel and equipment the safety instructions in this manual and the product catalogue must be observed, along with other relevant safety practices.

Caution	Indicates a hazard with a low level of risk. Which if not avoided, could result in minor or moderate injury.			
M Warning	Indicates a hazard with a medium level of risk. Which if not avoided, could result in death or serious injury.			
Danger Indicates a hazard with a high level of risk Which if not avoided, will result in d serious injury.				

• Electromagnetic compatibility: This product is class A equipment that is intended for use in an industrial environment. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted as well as radiated disturbances.

Warning

- Do not disassemble, modify (including change of printed circuit board) or repair the product.
- An injury or product failure may result.
- Do not operate the product beyond the specification range. Fire, malfunction or equipment damage may result. Use the product only after confirming the specifications.
- Do not use the product in the presence of flammable, explosive or corrosive gas.

Fire, explosion or corrosion may result.

This product does not have an explosion proof construction.

- When using the product as part of an interlocking system: Provide a double interlocking system, for example a mechanical system. Check the product regularly to ensure correct operation.
- Before performing maintenance, be sure of the following: Turn off the power supply.

Caution

- Always perform a system check after maintenance.
 Do not use the product if any error occurs.
 Safety cannot be assured if caused by un-intentional malfunction.
- Provide grounding to ensure correct operation and to improve noise resistance of the product.
- This product should be individually grounded using a short cable. • Follow the instructions given below when handling the product.
- Failing to do so may result in product damage.
- Maintenance space should always be provided around the product.
- Do not remove labels from the product.
- Do not drop, hit or apply excessive shock to the product.
- Unless stated otherwise, follow all specified tightening torques.
- Do not bend, apply tensile force, or apply force by placing heavy loads on the cables.

1 Safety Instructions (continued)

[F

- Connect wires and cables correctly and do not connect while the power is turned on.
- Do not route input/output wires and cables together with power or high-voltage cables.
- Check the insulation of wires and cables.
- Take appropriate measures against noise, such as noise filters, when the product is incorporated into other equipment or devices.
- Take sufficient shielding measures when the product is to be used in the following conditions:
- Where noise due to static electricity is generated.
- Where electro-magnetic field strength is high.
- Where radioactivity is present.
- Where power lines are located.
- Do not use the product in a place where electrical surges are generated.
- Use suitable surge protection when a surge generating load such as a solenoid valve is to be directly driven.
- Prevent any foreign matter from entering this product.
- Do not expose the product to vibration or impact.
- Use the product within the specified ambient temperature range.
- Do not expose the product to any heat radiation.
- Use a precision screwdriver with flat blade to adjust the DIP switch.
- Close the cover over the switches before power is turned on.
- Do not clean the product with chemicals such as benzene or thinners.

2 General Instructions

2.1 Wiring

Warning

- Adjusting, mounting or wiring change should not be done before disconnecting the power supply to the product.
 Electrical shock, malfunction and damage can result.
- Do not disassemble the cables.
- Use only specified cables.
- Do not connect or disconnect the wires, cables and connectors when the power is turned on.

Caution

- Wire the connector correctly and securely. Check the connector for polarity and do not apply any voltage to the terminals other than those specified in the Operation Manual.
- Take appropriate measures against noise. Noise in a signal line may cause malfunction. As a countermeasure separate the high voltage and low voltage cables, and shorten the wiring lengths, etc.
- Do not route input/output wires and cables together with power or high voltage cables.

The product can malfunction due to interference of noise and surge voltage from power and high voltage cables to the signal line. Route the wires of the product separately from power or high voltage cables.

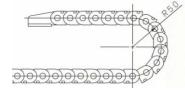
- Take care that actuator movement does not catch cables.
 Oregets with all wines and each accurred
- Operate with all wires and cables secured.
- Avoid bending cables at sharp angles where they enter the product.
- Avoid twisting, folding, rotating or applying an external force to the cable.

Risk of electric shock, wire breakage, contact failure and loss of control of the product can happen.

• Fix the motor cables protruding from the actuator in place before use.

The motor and lock cables are not robotic type cables and can be damaged when moved.

• The actuator cables connecting the actuator and the controller are robotic type cables. But should not be placed in a flexible moving tube with a radius smaller than the specified value. (Min. 50 mm)



2 General Instructions (continued)

• Confirm correct insulation of the product. Poor insulation of wires, cables, connectors, terminals etc. can cause interference with other circuits. Also there is the possibility that excessive voltage or current may be applied to the product causing damage.

2.2 Transportation

Caution

• Do not carry or swing the product by the cables.

2.3 Mounting

- Observe the tightening torque for screws.
- Unless stated otherwise, tighten the screws to the recommended torque for mounting the product.

Warning

• Do not make any alterations to this product.

Alterations made to this product may lead to a loss of durability and damage to the product, which can lead to human injury and damage to other equipment and machinery.

• When an external guide is used, connect the moving parts of the product and the load in such a way that there is no interference at any point within the stroke.

Do not scratch or dent the sliding parts of the table or mounting face etc., by striking or holding them with other objects. The components are manufactured to precise tolerances, so that even a slight deformation may cause faulty operation or seizure.

• Do not use the product until you verify that the equipment can be operated correctly.

After mounting or repair, connect the power supply to the product and perform appropriate functional inspections to check it is mounted correctly.

• When attaching to the work piece, do not apply strong impact or large moment.

If an external force over the allowable moment is applied, it may cause looseness in the guide unit, an increase in sliding resistance or other problems.

Maintenance space

Allow sufficient space for maintenance and inspection. **2.4 Handling**

Warning

• Do not touch the motor while in operation. The surface temperature of the motor can increase to approx. 80°C due to operating conditions.

Energizing alone may also cause this temperature increase.

- As it may cause burns, do not touch the motor when in operation.
- If abnormal heating, smoking or fire, etc. occurs in the product, immediately turn off the power supply.
- Immediately stop operation if abnormal operation noise or vibration occurs.

If abnormal operation noise or vibration occurs, the product may have been mounted incorrectly. Unless operation of the product is stopped for inspection, the product can be seriously damaged.

 Never touch the rotating part of the motor or the moving part of the actuator while in operation.
 There is a serious risk of injury.

• When installing, adjusting, inspecting or performing maintenance

on the product, controller and related equipment, be sure to turn off

the power supply to each of them. Then, lock it so that no one other

than the person working can turn the power on, or implement

• In the case of the actuator that has a servo motor (24VDC), the

signal just after the controller power is turned on.

for the installation and operation of this actuator

The product is set in parameters for shipment.

"motor phase detection step" is done by inputting the servo on

The "motor phase detection step" operates the table/rod to the

maximum distance of the lead screw. (The motor rotates in the

reverse direction if the table hits an obstacle such as the end stop

damper.) Take the "motor phase detection step" into consideration

A Caution

If it is combined with a different product parameter, failure can result.

• Keep the controller and product combined as delivered for use.

measures such as a safety plug.

2 General Instructions (continued)

• Check the product for the following points before operation.

- Damage to electric driving line and signal lines.
- Looseness of the connector to each power line and signal line.
- Looseness of the actuator/cylinder and controller/driver mounting.
- Abnormal operation.
- Stop function

When more than one person is performing work, decide on the procedures, signals, measures and resolution for abnormal conditions before beginning the work.

• Also designate a person to supervise the work, other than those performing the work.

• An operation test should be performed at low speed, start the test at a predefined speed, after confirming there are no problems.

• Actual speed of the product will be changed by the workload. Before selecting a product, check the catalogue for the instructions

- regarding selection and specifications.Do not apply a load, impact or resistance in addition to a transferred
- **load during return to origin.** In the case of the return to origin by pushing force, additional force will cause displacement of the origin position since it is based on detected

motor torque.

• Do not remove the nameplate.

2.5 Actuator with lock

Marning

• Do not use the lock as a safety lock or a control that requires a locking force.

The lock used is designed to prevent dropping of work piece.

• For vertical mounting, use the product with a lock.

If the product is not equipped with a lock, the product will move and drop the work piece when the power is removed.

• "Measures against drops" means preventing a work piece from dropping due to its weight when the product operation is stopped and the power supply is turned off.

• Do not apply an impact load or strong vibration while the lock is

activated.

If an external impact load or strong vibration is applied to the product, the lock will lose its holding force and damage to the sliding part of the lock or reduced lifetime can result. The same situation will happen when the lock slips due to a force higher than its holding force, as this will accelerate the wear to the lock.

• Do not apply liquid, oil or grease to the lock or its surroundings. When liquid, oil or grease is applied to the sliding part of the lock, its holding force will be reduced significantly.

• Take "measures against drops" and check that safety is assured before mounting, adjustment and inspection of the product.

If the lock is released with the product mounted vertically, a work piece can drop due to its weight.

• When the actuator is operated manually (when SVRE output signal is off), supply 24DCV to the [BK RLS] terminal of the power supply connector.

If the product is operated without releasing the lock, wearing of the lock sliding surface will be accelerated, causing reduction in the holding force and the life of the locking mechanism.

Do not supply 24VDC power to the BK-RLS (lock release) during normal operation.

The 24 VDC supply to the BK-RLS (lock release) is only required for maintenance or installation purposes when the motor is off.

If power is supplied constantly to the BK-RLS (lock release) the lock is released all the time and it cannot be activated in a power cut situation or in a stop circuit, and this can cause the workpiece to drop down.

2.6 Please refer to the auto switch references in "Best Pneumatics" when an auto switch is to be used.

Caution

2.7 Unpacking

Check the received product is as ordered.

If a different product is installed from the one ordered, injury or damage could result.

LEYG-TFN18-C

3 Specifications

J	Spe	CIIIC	alion	3											
		Model		L	EYG 16	M		LEYG 25 ^h	6	l	EYG 32 ^N	L		LEYG 40	Ľ
	Stroke [mm] Note1)		30, 50, 100, 150, 200		30, 5	0, 100, 15 250, 300		30, 50, 100, 150, 200, 250, 300			30, 50, 100, 150, 200, 250, 300				
		Horizontal (Contoller	(3000[mm/ s ²])	6	17	30	20	40	60	30	45	60	50	60	80
		type:LECP6/ LECP1/ LECPMJ)	(2000[mm/ s²])	10	23	35	30	55	70	40	60	80	60	70	90
	Work load [kg] ^{note 2)}	Horizontal	(3000[mm/ s ²])	4	11	20	12	30	30	20	40	40			
		(Contoller type:LECPA)	(2000[mm/ s²])	6	17	30	18	50	50	30	60	60	30	60	60
		Vertical	(3000[mm/ s ²])	1.5	3. 5	7.5	7	15	29	9	20	41	11	25	51
scification	Pushing f	orce [N] Note:		14 to 38	27 to 74	51 to 141	63 to 122	126 to 238	232 to 452	80 to 189	156 to 370	296 to 707	132 to 283	266 to 553	562 to 1058
Actuator specification	Speed [m	m/s] ^{Note5)}		15 to 500	8 to 250	4 to 125	18 to 500	9 to 250	5 to 125	24 to 500	12 to 300	6 to 150	24 to 500	12 to 350	6 to 175
	acceleration/deceleration			3,000 or less											
	Pushing s	peed (mm/s	Note6)		50 or less 35 or less				5	30 or less				30 or les	s
	Positionin	g repeatabil	ity [mm]		+/- 0.02										
	Lost motio	on[mm] Note1	3)	0.1 or less											
	Lead (mm)			10	5	2.5	12	6	3	16	8	4	16	8	4
		sistance/vibi :e [m/s²] ^{Note7}		50 / 20											
	Drive met	hod		Ball screw and Belt (For "LEY*_ / R / L "), Ball screw (For "LEY*D)											
	Guide typ	e		Slide bearing (LEYG:::M), Ball bushing bearing (LEYG::L)											
	Operating	Operating temperature range [°C] 5 to 40													
	Operating	humidity rang	e [%]					90 RH or less (No condensation)							
	Motor size	•				28			□42			⊐56.4 (M)		□56	6.4 (L)
	Type of Motor			Step motor (Servo 24VDC)											
cation	Encoder				Incremental A/B phase (800 pulse/rotation)										
specifi	Rated volt	age [VDC]							24	+/- 10%					
sctric ;	Encoder Rated voltage [VDC] Power consumption [W] Standby power consumption when operating [W]			23			40			50			50		
Ē				16			15			48			48		
	Moment m	hax. power tion [W] Note1			43			48			104			106	
	Type Note11							N	lo excitati	on operati	ng type				
Lock unit specifications	Holding fo			20	39	78	78	15 7	29 4	108	21 6	421	12 7	26 4	519
Lod specific	Power cor	nsumption [V	V] ^{Note12)}		3.6			5			5			5	
		Rated voltage [VDC]				24+/-10%									

	Model			LEYG	16 🗆				LEYG 25 🗆						
Stro	ke [mm]	30	50	10	0 1	50	200	30	50	100	15	0 2	200	250	300
	LEYG M [_/R/L]	0.83	0.97	1.2	0 1	.49	1.66	1.67	1.86	2.18	2.6	0 2	2.94	3.28	3.54
Weight	LEYGoL[_/R/L]	0.84	0.97	1.1	4 1	.43	1.58	1.68	1.89	2.13	2.5	6 2	2.82	3.14	3.38
[kg]	LEYGoM D	0.84	0.97	1.2	0 1	.49	1.66	1.66	1.85	2.17	2.5	9 2	2.93	3.27	3.53
[LEYG¤L D	0.84	0.97	1.1	4 1	.43	1.58	1.67	1.88	2.12	2.5	5 2	2.81	3.13	3.37
Additional weight for lock [kg]				0.1	2						0.2	6			
	Model			LI	EYG 32						L	EYG 40			
Stro	ke [mm]	30	50	100	150	200	250	250	30	50	100	150	200	250	300
	LEYGOM [_/R/L]	2.91	3.17	3.72	4.28	4.95	5.44	5.88	3.21	3.47	4.02	4.58	5.25	5.74	6.18
Weight	LEYGoL[_/R/L]	2.91	3.18	3.57	4.12	4.46	5.17	5.56	3.21	3.48	3.87	4.42	4.96	5.47	5.86
[kg]	LEYGo M D	2.90	3.16	3.71	4.27	4.94	5.43	5.87	3.20	3.46	4.01	4.57	5.24	5.73	6.1
	LEYGoL D	2.90	3.17	3.56	4.11	4.65	5.16	5.55	3.20	3.47	3.86	4.41	4.95	5.46	5.8

Note 1) The middle stroke other than the above are produced upon receipt of order.

- Note 2) Horizontal: The maximum value of the workload for the positioning operation. For the pushing operation the maximum workload is equal to the "Vertical workload"An external quide is necessary to support the
 - workload. The actual workload and transfer speed will depend on the type of external guide.
 - Vertical: The speed is dependent on the workload. Check the catalog data for the selected model.

The figures shown in () are the maximum acceleration/deceleration values. Set these values to be 3000mm/s² or less.

- Note 3) Pushing force accuracy is ±20% (F.S.).
- Note 4) The setting range for the "Pushing force" is from 35% to 85% (LEY25 is upper bound 65%).
 - For details of setting range and notes, refer 7.2 "INP output signal" p.41. It is possible that the "Pushing force" and the "Duty ratio" will change dependent on the set value.
- Note 5) The speed and force may change depending on the cable length, load and mounting conditions. Furthermore, if the cable length exceeds 5m then it will decrease by up to 10% for each 5m. (At 15m: Reduced by up to 20%)
- Note 6) "Pushing speed" is the allowable speed for the pushing operation. Note 7) Impact resistance:
 - No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.) Vibration resistance:
 - No malfunction occurred in a test ranging between 45 to 2000 Hz, when the actuator was tested in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- Note 8) The "Power consumption" (including the controller) is for when the actuator is operating.
- Note 9) The "Standby power consumption when operating" (including the controller) is for when the actuator is stopped in the set position during the operation, except during the pushing operation.

3 Specifications (continued)

- Note 10) The "Momentary max. power consumption" (including the controller) is for when the actuator is operating.
- This value can be used for the selection of the power supply. Note 11) With lock only.
- Note 12) For an actuator with lock, add the power consumption for the lock.
- Note 13) A reference value for correcting an error in reciprocal operation.

4 Installation

4.1 Design and selection

Warning

• Do not apply a load in excess of the actuator specification. A product should be selected based on the maximum work load and allowable moment.

If the product is used outside of the operating specification, the eccentric load applied to the guide will become excessive and have adverse effects such as creating play in the guide, reduced accuracy and reduced product life.

• Do not exceed the speed limit of the actuator specification. Select a suitable actuator by the relationship of allowable work load and speed.

Noise or reduction of accuracy may occur if the actuator is operated in excess of its specification and could lead to reduced accuracy and reduced product file.

• Do not use the product in applications where excessive external force or impact force is applied to it.

This can lead to premature failure of the product.

4.2 Handling

Caution

• Do not apply a load, impact or resistance in addition to the transferred load during return to origin.

Otherwise, the origin can be displaced since it is based on detected motor torque.

• Do not operate by fixing the piston rod and moving the actuator body.

An excessive load will be applied to the piston rod, leading to damage to the actuator and reduced lifetime.

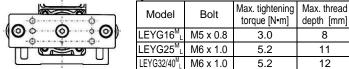
4.3 Mounting

Caution

• When mounting the product, use screws with adequate length and tighten them to the recommended torque.

Tightening to a torque over the specified range can cause operation failure, and insufficient torque can cause displacing or dropping of the attachment.

Work fixed/ Plate tapped style



Tighten the product mounting screws to the specified torque.

Tightening to a torque over the specified range can cause operation failure, and insufficient torque can cause displacing or dropping of the attachment.

Mounting / Upper mounting tapped style

Model	Bolt	Max. tightening torque [N•m]	Length L [mm]
LEYG16 ^M ∟	M4 x 0.7	1.5	31.8
LEYG25 [™] ∟	M5 x 0.8	3.0	40.3
LEYG32/40 ^M L	M5 x 0.8	3.0	50.3

Mounting / Lower mounting tapped style



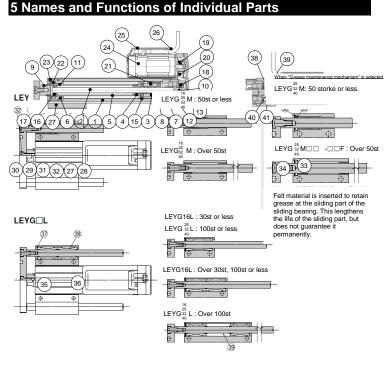
annen										
2	Model	Bolt	Max. tightening torque [N•m]	Max. thread depth [mm]						
Z	LEYG16 ^M ∟		3.0	10						
	LEYG25 [™] ∟	M6 x 1.0	5.2	12						
	LEYG32/40 ^M L	M6 x 1.0	5.2	12						

4 Installation (continued)

Mounting / Head side tapped style



e tapped style							
Model	Bolt	Max. tightening torque [N•m]	Max. thread depth [mm]				
LEYG16 [™] ∟	M5 x 0.7	1.5	7				
LEYG25 [™] ∟	M8 x 0.8	3.0	8				
LEYG32/40 ^M L	M8 x 1.0	5.2	10				
	Model LEYG16 ^M L LEYG25 ^M L	Model Bolt LEYG16 ^M L M5 x 0.7 LEYG25 ^M L M8 x 0.8	Model Bolt Max. tightening torque [N•m] LEYG16 ^M L M5 x 0.7 1.5 LEYG25 ^M L M8 x 0.8 3.0				

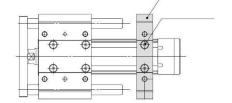


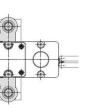
Support block Mounting

Bolts

(37)

Support block (LEYG IM / L)





Names and Functions of Individual Parts(continued)

No.	Part	Material	Remarks
1	Body	Aluminium alloy	Anodized
2	Ball screw shaft	High carbon chrome bearing steel	
3	Ball screw nut	-	
4	Piston	Aluminium alloy	
5	Piston rod	Stainless steel	Hard chrome anodized
6	Rod cover	Aluminium alloy	
7	Bearing holder	Aluminium alloy	
8	Rotation stopper	Plastic	
9	Socket	Free cutting carbon steels	Nickel plated
10	Connected shaft	Free cutting carbon steels	Nickel plated
11	Bushing	Lead bronze cast	
12	Bearing	-	
13	Pulley box	Aluminium die-cast	Non-Hexavalent chomated
14	Pulley plate	Aluminium die-cast	Non-Hexavalent chromated
15	Magnet	-	
16	Wear ring holder	Stainless steel	Only stroke 101mm or more
17	Wear ring	POM	Only stroke 101mm or more
18	Pulley (For Screw shaft)	Aluminium alloy	
19	Pulley (For motor)	Aluminium alloy	
20	Belt	-	
21	Parallel pin	Stainless steel	
22	Rod seal	NBR	
23	Retaining ring	Carbon tool steel	Phosphate coated
24	Motor	-	
25	Motor cover	Plastic	Only "With motor cover"
26	Grommet	Plastic	Only "With motor cover"
27	Guide attachment	Aluminium alloy	Anodized
28	Guide rod	Carbon steel	Hard chrome plated
29	Plate	Aluminium alloy	Anodized
30	Plate mounting bolt	Carbon tool steel	Nickel plated
31	Guide bolt	Carbon tool steel	Nickel plated
32	Slide Bearing	Babbitt	

33	Felt	Felt	
34	Holder	Resin	
35	Retaining ring	Carbon tool steel	Phosphate coated
36	Ball bushing		
37	Spacer	Aluminium alloy	
38	Motor brock	Aluminium alloy	Anodized
39	Motor adapter	Aluminium alloy	Anodized
40	Hub	Aluminium alloy	
41	sleeve	NBR	

Support block part number

Size	Part number
16	LEYG-S016
25	LEYG-S025
32/40	LEYG-S032

 Mounting bolt (2 pieces) is included in Support block.



Warning

Use only specified cables otherwise there may be risk of fire and damage

7 Maintenance

M Warning

• Do not disassemble or repair the product.

Fire or electric shock can result.

• Before modifying or checking the wiring, the voltage should be checked with a tester 5 minutes after the power supply is turned off. Electrical shock can result.

Caution

• Maintenance should be performed according to the procedure indicated in the Operating Manual.

Incorrect handling can cause an injury, damage or malfunction of equipment and machinery.

Removal of product.

When equipment is serviced, first confirm that measures are in place to prevent dropping of work pieces and run-away of equipment, etc. and then turn off the power supply to the system. When machinery is restarted, check that operation is normal with

actuators in the correct positions.

• The product has been lubricated for life at manufacturer, and does not require lubrication in service.

Contact SMC if lubrication will be applied. Please read the maintenance manual for each actuator.

Items for visual appearance check.
 Loose screws, abnormal dirt.
 Check of flaws/faults and cable connections.

Vibration, noise. • Items for belt check

Check the belt regularly as shown in "maintenance frequency". Stop operation immediately and contact SMC when the belt appears to

- be like the photographs shown below.
- Tooth shape canvas is worn out Canvas fibre becomes fuzzy. Rubber is removed and the fibre becomes whitish. Lines of fibres become unclear.

7 Maintenance (continued)



Peeling off or wearing of the side of the belt

Belt corner becomes round and frayed threads stick out.



Belt partially cut

8 CE Directive

with the following instructions.

assemblies forming part of a larger system.

were connected as shown in the diagram below.

- Belt is partially cut;
- Foreign matter caught in teeth other than cut part causes flaw. Vertical line of belt teeth

The LE series of actuators, motor controllers and teaching box

conform to the EU EMC directive, if they are installed in accordance

These components are intended for incorporation into machinery and

The CE compliance was achieved when the above three components

Please note that the EMC changes according to the configuration of

the customers control panel and the relationship with other electrical

customer's equipment under actual operating conditions. As a result

equipment and wiring. Therefore conformity to the EMC directive cannot be certified for SMC components incorporated into the

it is necessary for the customer to verify conformity to the EMC

directive for the machinery and equipment as a whole.

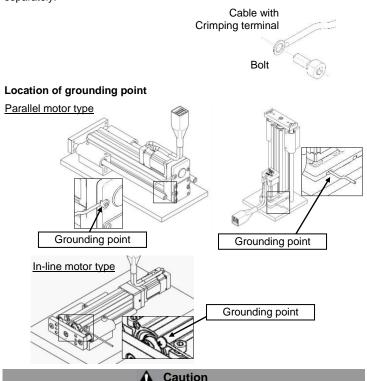
- Flaw, which is made when the belt runs on the flange.
- Rubber back of the belt is softened and sticky.



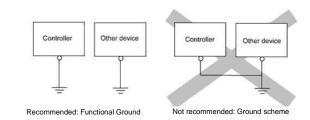


Grounding the Actuator

Actuator must be grounded to shield the actuator from electric noise, as shown below. The bolt and cable with crimping terminal should be prepared separately.



The product should be connected to a ground. The cross-sectional area of this wire shall be a minimum of 2 mm^2 . The grounding point should be as near as possible to the actuator to keep the wire length short.



Grounding the controller

Please refer to the IMM of the LEC being used, for information on grounding the controller.

Machinery parts list

No.	Part name	Part no./Material				
1	Motor controller	LECP6 Series				
2	Actuator	LE Series				
3	Teaching box	LEC-T1 Series				
4	I/O cable (with shield)	LEC-CN5-[]				
5	Power supply cable	5 wire with shield				
	(with shield)	(5 m)				
6	Actuator cable	LEC-CP-[]				
7	P-clip (for shield ground)	Metal				
8	Programmable controller	-				
9	Switching power supply	-				
Plass	Please refer to the IMM of the LEC being used for information on the LE					

Please refer to the IMM of the LEC being used for information on the LEC installation procedure.

9 Contacts

AUSTRIA BELGIUM CZECH REP. DENMARK FINLAND FRANCE GERMANY GREECE HUNGARY IRELAND ITALY

NETHERLANDS NORWAY POLAND PORTUGAL SLOVAKIA SLOVENIA SPAIN SWEDEN SWITZERLAND UNITED KINGDOM

SMC Corporation

URL: http:// www.smcworld.com (Global) http:// www.smceu.com (Europe) Specifications are subject to change without prior notice from the manufacturer. © 2016 SMC Corporation All Rights Reserved.