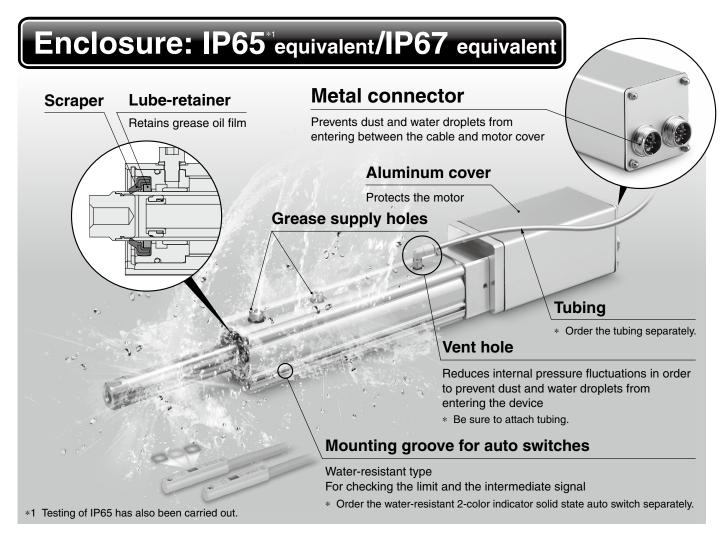
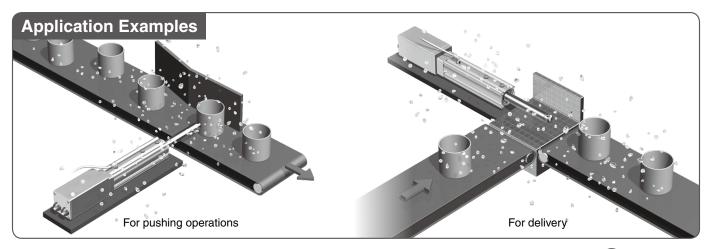
Dust-tight/Water-jet-proof (IP65 Equivalent/IP67 Equivalent)

Battery-less Absolute Encoder Type Electric Actuator/Rod Type



Battery-less absolute encoder compatible

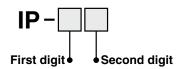


LEY-X8 Series



LEY-X8 Series Enclosure

Degrees of Protection



First Digit: Degree of protection against solid foreign objects

Degrees	Degree of protection
0	Not protected
1	Protected against solid foreign objects of 50 mmø and larger
2	Protected against solid foreign objects of 12 mmø and larger
3	Protected against solid foreign objects of 2.5 mmø and larger
4	Protected against solid foreign objects of 1.0 mmø and larger
5	Dust protected
6	Dust-tight

Second Digit: Degree of protection against water

Degrees	Degree of protection	
0	Not protected	_
1	Protected against vertically falling water droplets	Dripproof type 1
2	Protected against vertically falling water droplets when enclosure is tilted up to 15°	Dripproof type 2
3	Protected against rainfall when enclosure is tilted up to 60°	Rainproof type
4	Protected against splashing water	Splashproof type
5	Protected against water jets	Water-jet- proof type
6	Protected against powerful water jets	Powerful water- jet-proof type
7	Protected against the effects of temporary immersion in water	Immersible type
8	Protected against the effects of continuous immersion in water	Submersible type

Example) Degrees of protection

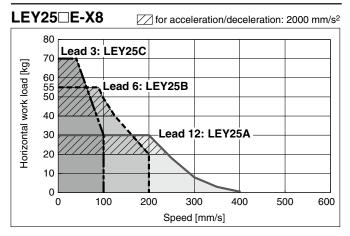
De	egrees of prote	ection	Details			
IP65	Solid foreign objects Dust-tight		Dust particles are prevented from entering the device.			
1205	Entry of water	Water-jet- proof*1	The direct application of water jets to the device from any direction will not cause any damage.			
	Solid foreign objects	Dust-tight	Dust particles are prevented from entering the device.			
IP67	Entry of water	Immersible*1	The amount of water that enters the device when the actuator (in the stopped state) is submersed in up to 1 m of water for up to 30 mins will not cause any damage.			

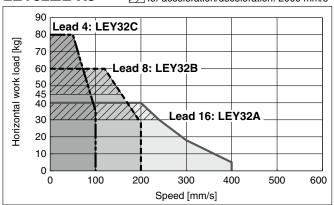
^{*1} Be sure to take appropriate protective measures if the product is to be used in an environment where it will be constantly exposed to water or fluids other than water splash. In particular, the product cannot be used in environments where oils, such as cutting oil or cutting fluid, are present.

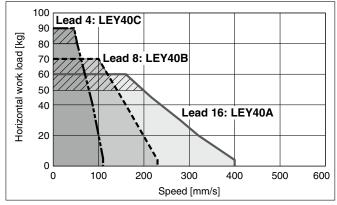


Speed-Work Load Graph (Guide)

Horizontal

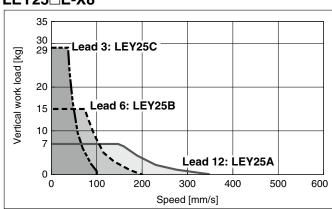




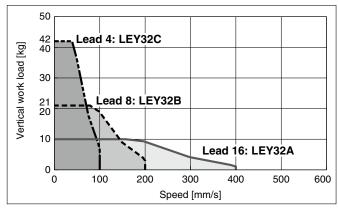


Vertical

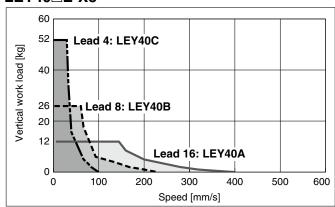
LEY25□E-X8



LEY32□E-X8



LEY40□E-X8

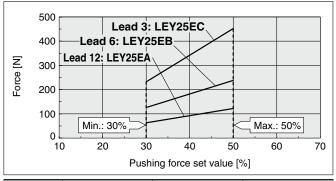


Force Conversion Graph (Guide)

Items not listed are the same as those of the standard product. For details, refer to the **Web Catalog**.

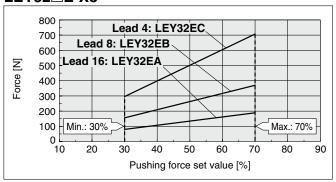
Battery-less Absolute (Step Motor 24 VDC)

LEY25□E-X8



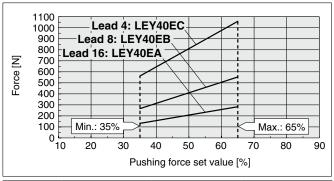
Ambient temperature | Pushing force set value [%] | Duty ratio [%] | Continuous pushing time [min] | 40°C or less | 50 or less | 100 | No restriction

LEY32□E-X8



Ambient temperature	Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
40°C or less	70 or less	100	No restriction

LEY40□E-X8



Ambient temperature	Pushing force set value [%]	Duty ratio [%]	Continuous pushing time [min]
40°C or less	65 or less	100	No restriction

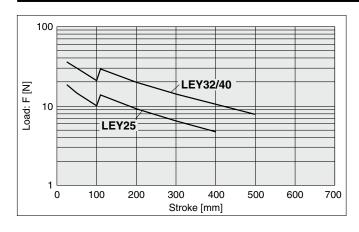
<Limit Values for Pushing Force and Trigger Level in Relation to Pushing Speed>

Model	Lead	Pushing speed [mm/s]	Pushing force (Setting input value)
LEY25□E	A/B/C	21 to 35	40 to 50%
LEY32□E	Α	24 to 30	50 to 70%
LE132LE	B/C	21 to 30	50 10 70%
LEY40□E	A	24 to 30	50 to 65%
LEY40LE	B/C	21 to 30	50 10 65%

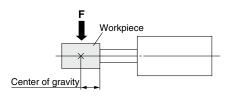
<Set Values for Vertical Upward Transfer Pushing Operations>

Model	LEY25□E			LEY32□E			LEY40□E		
Lead	Α	В	С	Α	В	С	Α	В	C
Work load [kg]	2.5	5	10	4.5	9	18	7	14	28
Pushing force		50%			70%			65%	

Graph of Allowable Lateral Load on the Rod End (Guide)

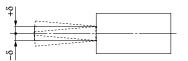


[Stroke] = [Product stroke] + [Distance from the rod end to the center of gravity of the workpiece]

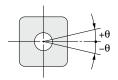


Rod Displacement: $\delta \ {}_{\text{[mm]}}$

Stroke Size	30	50	100	150	200	250	300	350	400	450	500
25	±0.3	±0.4	±0.7	±0.7	±0.9	±1.1	±1.3	±1.5	±1.7	_	_
32/40	±0.3	±0.4	±0.7	±0.6	±0.8	±1.0	±1.1	±1.3	±1.5	±1.7	±1.8



Non-rotating Accuracy of Rod



Size	Non-rotating accuracy θ
25	±0.8°
32/40	±0.7°

* Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod.

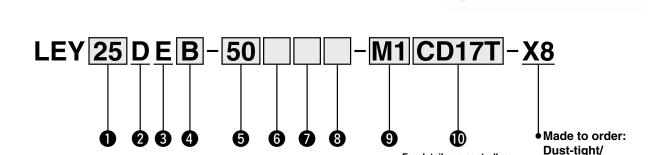
This may cause the deformation of the non-rotating guide, abnormal auto switch responses, play in the internal guide, or an increase in the sliding resistance.

Battery-less Absolute (Step Motor 24 VDC)

Dust-tight/Water-jet-proof (IP65 Equivalent/IP67 Equivalent) Electric Actuator/Rod Type LEY-X8 (Made to Order) Series LEY25/32/40

Refer to pages 2 to 4 for model selection.

How to Order



1 Size 25 32/40

Motor mounting position D In-line

3 Motor type

E	Battery-less absolute (Step motor 24 VDC)

4 Lead [mm]

Symbol	LEY25	LEY32/40
Α	12	16
В	6	8
С	3	4

Stroke [mm]

30	30
to	to
500	500

^{*} For details, refer to the applicable stroke table below

6 Motor option

For details on controllers.

refer to page 6.

Nil	Without option
В	With lock

Water-jet-proof

Rod end thread

Nil	Rod end female thread
M	Rod end male thread (1 rod end nut is included.)

8 Mounting*2

Symbol	Type	Motor mounting position				
Symbol	Туре	In-line				
Nil	Ends tapped/ Body bottom tapped*3	•				
F	Rod flange*3	•				

9 Actuator cable type/length

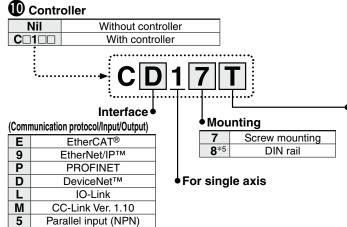
Robotic	cable		[m]
MN	None	M8	8*4
M1	1.5	MA	10*4
МЗ	3	MB	15*4
M5	5	МС	20*4

Applicable Stroke Table*1

Applicable Stroke	Applicable Stroke Table • Standar													
Stroke [mm]	30	50	100	150	200	250	300	350	400	450	500	Manufacturable stroke range		
LEY25	•	•	•	•	•	•	•	•	•	_	_	30 to 400		
LEY32/40	•	•	•	•	•	•	•	•	•	•		30 to 500		

^{*} For auto switches, refer to page 12.

^{* &}quot;-X8" is not added to an actuator model with a controller part number suffix. Example) "LEY25DEB-100" for the LEY25DEB-100M-M1CD17T-X8



Communication plug connector I/O cable*6

Symbol	Type	Applicable interface				
Nil	Without accessory					
s	Straight type communication					
3	plug connector	DeviceNet™ CC-Link Ver. 1.10				
Т	T-branch type communication					
'	plug connector					
1	I/O cable (1.5 m)	Parallel input (NPN)				
3	I/O cable (3 m)	Parallel input (NPN) Parallel input (PNP)				
5	I/O cable (5 m)	Faranei iriput (FINF)				

- *1 Please consult with SMC for non-standard strokes as they are produced as special orders.
- *2 The mounting bracket is shipped together with the product but does not come assembled.
- *3 For the horizontal cantilever mounting of the rod flange, or ends tapped types, use the actuator within the following stroke range. · LEY25: 200 or less · LEY32/40: 100 or less
 - **.** Caution

6

[CE-compliant products]

Parallel input (PNP)

EMC compliance was tested by combining the electric actuator LEY series and the controller JXC series.

The EMC depends on the configuration of the customer's control panel and the relationship with other electrical equipment and wiring. Therefore, compliance with the EMC directive cannot be certified for SMC components incorporated into the customer's equipment under actual operating conditions. As a result, it is necessary for the customer to verify compliance with the EMC directive for the machinery and equipment as a whole.

[Precautions relating to differences in controller versions]

When the JXC series is to be used in combination with the battery-less absolute encoder, use a controller that is version V3.4 or S3.4 or higher. For details, refer to the Web Catalog.

- *4 Produced upon receipt of order
- *5 The DIN rail is not included. It must be ordered separately.
- *6 Select "Nil" for anything other than DeviceNet™, CC-Link, or parallel

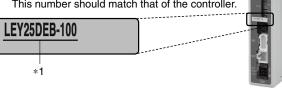
Select "Nil," "S," or "T" for DeviceNet™ or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

The actuator and controller are sold as a package.

Confirm that the combination of the controller and actuator is correct.

<Check the following before use.>

*1 Check the actuator label for the model number. This number should match that of the controller.



Refer to the Operation Manual for using the products. Please download it via our website.

Туре	EtherCAT® direct input type	EtherNet/IP™ direct input type	PROFINET direct input type	DeviceNet™ direct input type	IO-Link direct input type	CC-Link direct input type	Step data input type				
Series	JXCE1	JXC91	JXCP1	JXCD1	JXCL1	JXCM1	JXC51 JXC61				
Features	EtherCAT® direct input	EtherNet/IP™ direct input	PROFINET direct input	DeviceNet™ direct input	IO-Link direct input	CC-Link direct input	Parallel I/O				
Compatible motor	Battery-less absolute (Step motor 24 VDC)										
Max. number of step data				64 points							
Power supply voltage				24 VDC							

Specifications

Step Motor (Servo/24 VDC)

		Model		LI	EY25□E->	(8	L	EY32□E->	(8	L	EY40□E->	(8	
		Havimantal	(3000 [mm/s ²])	20	40	60	30	45	60	50	60	80	
	Work load [kg]*1	Horizontal	(2000 [mm/s ²])	30	55	70	40	60	80	60	70	90	
		Vertical	(3000 [mm/s ²])	7	15	29	10	21	42	12	26	52	
	Pushing force	e [N]*2 *3 *4		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	
ջ	Speed [mm/s	s]* ⁴		18 to 400	9 to 200	5 to 100	24 to 400	12 to 200	6 to 100	24 to 400	12 to 230	6 to 110	
specifications	Max. acceler	ation/decelera	ation [mm/s²]	3000									
lica	Pushing spe	ed [mm/s]*5			35 or less			30 or less			30 or less		
eci	Positioning r	epeatability [mm]					±0.02					
	Lost motion	[mm]*6						0.1 or less		30 or less 16 8 4 *14 □56.4 4 VDC) otation)			
ctuator	Screw lead [mm]		12	6	3	16	8	4	16	8	4	
Ę	Impact/Vibra	tion resistand	e [m/s ²]* ⁷	50/20									
ĕ	Actuation type	ре					Ball	screw (LEY	'□D)	12 26 52 132 to 283 266 to 553 562 to 24 to 400 12 to 230 6 to 30 or less 16 8 4 DC) tion) 50 48 106			
	Guide type						Sliding I	oushing (Pis	ton rod)		60 70 12 26 2 to 283 266 to 553 562 4 to 400 12 to 230 6 t 30 or less 16 8 □56.4 □50 48 106		
	Enclosure*8						IP65 equiva	alent/IP67 e	quivalent*14				
	Operating te	mperature rar	nge [°C]					5 to 40			60 70 90 12 26 52 32 to 283 266 to 553 562 to 24 to 400 12 to 230 6 to 1 30 or less 16 8 4 16 8 4 17 265 518		
	Operating hu	imidity range	[%RH]				90 or les	s (No conde	ensation)				
ns	Motor size				□42			□56.4			□56.4		
ati	Motor type					Batt	ery-less ab	solute (Step	motor 24 V	DC)			
iji j	Encoder					Batt	ery-less ab	solute (4096	pulse/rotat	tion)			
specifications	Rated voltag	e [V]					2	4 VDC ±10°	%				
	Power consu	mption [W]*9			40			50			50		
Electric	Standby power	consumption wh	en operating [W]*10		15			48			48		
Ĭ	Max. instantar	neous power co	onsumption [W]*11	48 104					106				
ations	Type*12						Non-	magnetizing	lock		50 48 106		
ecifica	Holding force	e [N]		78	157	294	108	216	421	127	265	519	
Lock unit specifications	Power consu	ımption [W]*1	3		5			5			5		
Š	Rated voltag	e [V]					2	4 VDC ±10°	%				

- *1 Horizontal: The maximum value of the work load. An external guide is necessary to support the load. (Friction coefficient of guide: 0.1 or less) The actual work load and transfer speed change according to the condition of the external guide. Also, speed changes according to the work load. Check the "Model Selection" on page 2.
 - : Speed changes according to the work load. Check the "Model Selection" on page 2.
 - The values shown in () are the acceleration/deceleration. Set these values to be 3000 [mm/s²] or less.
- *2 Pushing force accuracy is ±20% (F.S.).
- *3 The pushing force values for LEY25□E are 30% to 50%, for LEY32□E are 30% to 70%, and for LEY40□E are 35% to 65%.
 - The pushing force values change according to the duty ratio and pushing speed. Check the "Model Selection" on page 3.
- *4 The speed and force may change depending on the cable length, load, and mounting conditions. Furthermore, if the cable length exceeds 5 m, then it will decrease by up to 10% for each 5 m. (At 15 m: Reduced by up to 20%)
- *5 The allowable speed for pushing operations. When push conveying a workpiece, operate at the vertical work load or less.
- *6 A reference value for correcting an error in reciprocal operation
- *7 Impact resistance : No malfunction occurred when the actuator was tested with a drop tester in both an axial direction and a 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. The test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the actuator in the initial state.)
- *8 Cannot be used in an environment where oil such as cutting oil splashes or it is constantly exposed to water Take appropriate protective measures. For details on enclosure, refer to the "Enclosure" on page 1.
- *9 The power consumption (including the controller) is for when the actuator is operating.
- *10 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
- The maximum instantaneous power consumption (including the controller) is for when the actuator is operating. This value can be used for the selection of the power supply.
- *12 With lock only
- *13 For an actuator with lock, add the power consumption for the lock.
- *14 Excludes the controller body and the connector part on the controller side



Weight

Weight: In-line Motor Type

LEY25D											
Stroke	30	50	100	150	200	250	300	350	400		
Product weight [kg]	1.48	1.55	1.72	1.97	2.15	2.32	2.50	2.67	2.85		

LEY32D											
Stroke	30	50	100	150	200	250	300	350	400	450	500
Product weight [kg]	2.58	2.69	2.98	3.36	3.65	3.94	4.22	4.51	4.80	5.08	5.37

LEY40D											
Stroke	30	50	100	150	200	250	300	350	400	450	500
Product weight [kg]	2.93	3.04	3.33	3.71	4.00	4.29	4.57	4.86	5.15	5.43	5.72

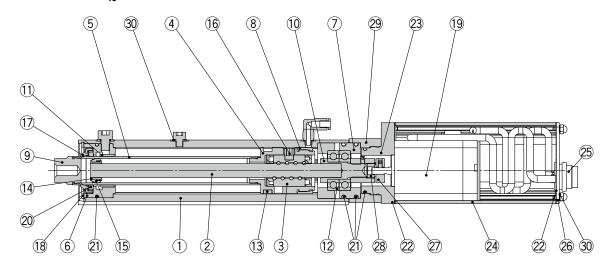
Additional Weight

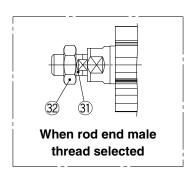
Additional We	Additional Weight [kg]									
5	Size	25	32	40						
Lock	0.35	0.65	0.65							
Rod end male	Male thread	0.03	0.03	0.03						
thread	Nut	0.02	0.02	0.02						
Rod flange (includ	0.17	0.20	0.20							



Construction

In-line motor type: $LEY_{40}^{25}D$





Component Parts

No.	Description	Material	Note
1	Body	Aluminum alloy	Anodized
2	Ball screw shaft	Alloy steel	
3	Ball screw nut	Synthetic resin/Alloy steel	
4	Piston	Aluminum alloy	
5	Piston rod	Stainless steel	Hard chrome plating
6	Rod cover	Aluminum alloy	Anodized
7	Bearing holder	Aluminum alloy	
8	Rotation stopper	Resin	
9	Socket	Stainless steel	
10	Connected shaft	Free cutting carbon steel	Nickel plating
11	Bushing	Bearing alloy	
12	Bearing	_	
13	Magnet	_	
14	Wear ring holder	Stainless steel	Stroke 101 mm or more
15	Wear ring	Resin	Stroke 101 mm or more
16	Parallel pin	Stainless steel	

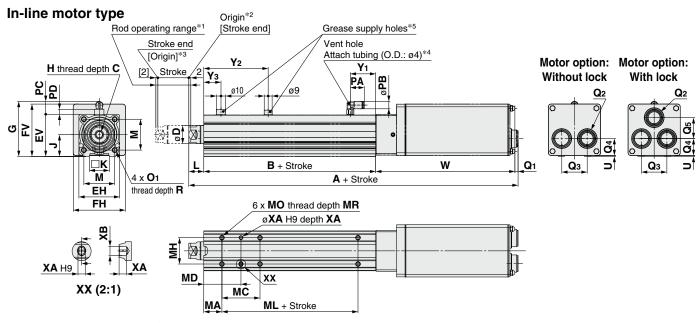
No.	Description	Material	Note
17	Greater water resistant scraper	Stainless steel/NBR	
18	Retaining ring	Stainless steel	
19	Motor	_	
20	Lube-retainer	Felt	
21	O-ring	NBR	
22	Gasket	Chloroprene	
23	Motor adapter	Aluminum alloy	LEY25 only
24	Motor cover	Aluminum alloy	Anodized
25	Metal connector	Zinc die-casted	Chrome plating
26	End cover	Aluminum alloy	Anodized
27	Hub	Aluminum alloy	
28	Spider	NBR	
29	Motor block	Aluminum alloy	Anodized
30	Seal washer	Stainless steel/NBR	
31	Socket (Male thread)	Stainless steel	
32	Nut	Stainless steel	

Replacement Parts/Grease Pack

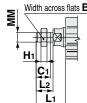
Applied portion	Order no.
Piston rod	GR-S-010 (10 g)
Piston	GR-S-020 (20 g)

Apply grease on the piston rod periodically.
 Grease should be applied at 1 million cycles or 200 km, whichever comes first.

Dimensions



25 Rod end male thread: LEY32D□-□□M



						[mm]
Size	B ₁	C ₁	H ₁	L ₁	L ₂	MM
25	22	20.5	8	38	23.5	M14 x 1.5
32/40	22	20.5	8	42	23.5	M14 x 1.5

* The L₁ measurement is when the unit is in the original position. At this position, 2 mm at the end.

																		[IIIIII]
Size	Stroke range		4	В	С	В	ЕН	EV	FH	FV	G	н	.ı	K		М	O 1	R
OIZO	[mm]	Without lock	With lock		•	-				' '	_ G	••	٦		_		0.	••
25	30 to 100	262.5	312.5	89.5	10	13 20	20 44	44 45.5	45.5 57.6 5	c F7 7	57.7 61.4	M8 x 1.25	24	17	14.5	34	M5 x 0.8	8
25	105 to 400	287.5	337.5	114.5	13					57.7						34		
32	30 to 100	273	323	96	13	05	F-4	51 56.5	56.5 69.6	60.6 70.6	70.4	72.4 M8 x 1.25	31	22	18.5	40	M6 x 1.0	10
32	105 to 500	303	353	126	13	25	51			79.0	79.6 72.4		اد	22				
40	30 to 100	295	355	96	10	13 25 5		51 56.5	56.5 69.6 7	69.6 79.6 72.4	C 70.4	M0 v 1 05	01	00	10.5	40	MC v 1 O	10
40	105 to 500	325	375	126	13		51				M8 x 1.25	31	22	18.5	40	M6 x 1.0	10	

Size	Stroke range [mm]	PA	РВ	РС	PD	Q1		With lock	Qз	Q4)5 With lock	U	Without lock	With lock	Y 1	Y 2	Y 3
25	30 to 100 105 to 400	15.4	8.2	15.9	6.5	3.5	2 x ø22	3 x ø22	28	18.7	_	23	0.9	155	205	28	71 96	19
32	30 to 100 105 to 500	15.4	8.2	15.9	7.1	3.5	2 x ø22	3 x ø22	36	28	_	32	1	155	205	30	75.5 105.5	16
40	30 to 100 105 to 500	15.4	8.2	15.9	7.1	3.5	2 x ø22	3 x ø22	36	28	_	32	1	177	227	30	75.5 105.5	16

Body	Body Bottom Tapped										
Size	Stroke range [mm]	MA	МС	MD	МН	ML	МО	MR	XA	ХВ	
	30 to 39	24 32 50									
	40 to 100		42	41							
25	101 to 124	20	42	41	29 75	M5 x 0.8	6.5	4	5		
	125 to 200		59	49.5		75					
	201 to 400		76	58							
	30 to 39		22	36		50			5		
	40 to 100		36	43				8.5		6	
32/40	101 to 124	25	30	40	30		M6 x 1				
	125 to 200		53	51.5		80					
	201 to 500		70	60							

- *1 This is the range within which the rod can move when it returns to origin. Make sure workpieces mounted on the rod do not interfere with the workpieces and facilities around the rod.
- *2 Position after returning to origin
- *3 [] for when the direction of return to origin has changed
- *4 The vent hole is the port for releasing to atmosphere. Do not apply pressure to this hole.

Attach tubing to the vent hole and place the end of the tubing so it is not exposed to dust or water.

- *5 It is recommended to take appropriate protective measures if the product is to be used in an environment where fluids other than water splash. In particular, the product cannot be used in environments where cutting oil, cutting fluid, etc., are present.
- * The direction of rod end width across flats ($\square K$) differs depending on the products.

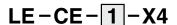
For the mounting bracket dimensions, refer to the Web Catalog.



[mm]

Option: Actuator Cable

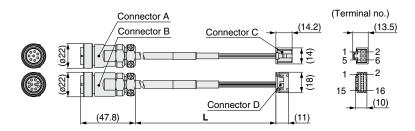
[Metal connector robotic cable for battery-less absolute (Step motor 24 VDC)]





1	1.5
3	3
5	5
8	8*1
Α	10* ¹
В	15* ¹
С	20*1

*1 Produced upon receipt of order

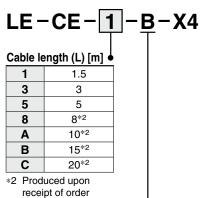


Weight

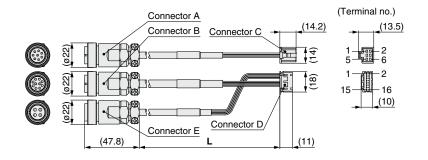
Product no.	Weight [g]	Note
LE-CE-1-X4	270	
LE-CE-3-X4	440	
LE-CE-5-X4	650	
LE-CE-8-X4	980	Robotic cable
LE-CE-A-X4	1200	
LE-CE-B-X4	1760	
LF-CF-C-X4	2290	

Signal	Connector A terminal no.		Cable color	Connector C terminal no.
Ā	1 .	-	Red	1
Α	2 .		Brown	2
COM-A	3 .		Green	3
COM-B	4		Blue	4
B	5 .		Yellow	5
В	6		Orange	6
Signal	Connector B terminal no.	Shield	Cable color	Connector D terminal no.
Vcc	1 .		Brown	12
GND	2 .		Black (Brown)	13
SD+ (RX)	3 .		Yellow	11
SD- (TX)	4		Black (Yellow)	10
Α	5 •		Black (Red)	6
Ā	6		Red	7
В	7		Black (Orange)	8
B	8 -	· · · · · · · · · · · · · · · · · · ·	Orange	9
Shield	9 (FX	Black	3

[Metal connector robotic cable with lock for battery-less absolute (Step motor 24 VDC)]

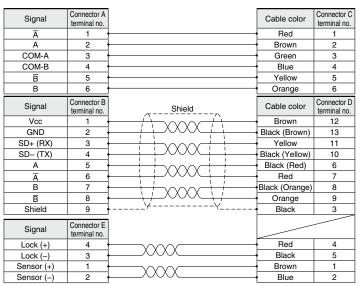


With lock and sensor



Weight

woigin		
Product no.	Weight [g]	Note
LE-CE-1-B-X4	320	
LE-CE-3-B-X4	490	
LE-CE-5-B-X4	700	
LE-CE-8-B-X4	1030	Robotic cable
LE-CE-A-B-X4	1250	
LE-CE-B-B-X4	1810	
I F-CF-C-B-X4	2340	



Water Resistant 2-Color Indicator Solid State Auto Switch: Direct Mounting Type D-M9NA(V)/D-M9PA(V)/D-M9BA(V) (ROHS)

Grommet

- Water (coolant) resistant type
- 2-wire load current is reduced (2.5 to 40 mA).
- The proper operating range can be determined by the color of the light. (Red → Green ← Red)
- Using flexible cable as standard spec.



Precautions

Fix the auto switch with the existing screw installed on the auto switch body. The auto switch may be damaged if a screw other than the one supplied is used.

Please consult with SMC if using coolant liquid other than water based solution.

Weight

[g]

Auto s	witch model	D-M9NA(V) D-M9PA(V)	D-M9BA(V)
	0.5 m (Nil)	8	7
Lead	1 m (M)	14	13
length	3 m (L)	41	38
lengui	5 m (Z)	68	63

Auto Switch Specifications

PLC: Programmable Logic Controller

D-M9□A, D-M9□AV (With indicator light)											
Auto switch model	D-M9NA	D-M9NAV	D-M9PA	D-M9PAV	D-M9BA	D-M9BAV					
Electrical entry direction	In-line	Perpendicular	In-line	Perpendicular	In-line	Perpendicular					
Wiring type		3-w	2-wire								
Output type	NPN		PI	NΡ	_						
Applicable load		IC circuit, F	24 VDC relay, PLC								
Power supply voltage	5	5, 12, 24 VDC	_								
Current consumption		10 mA	_								
Load voltage	28 VDC or less		_		24 VDC (10 to 28 VDC)						
Load current		40 mA	2.5 to 40 mA								
Internal voltage drop	0.8 V or le	ess at 10 mA	4 V or less								
Leakage current		100 μA or les	0.8 mA or less								
Indicator light	Operating range Red LED illuminates.										
	Proper operating range Green LED illuminates.										
Standard	CE marking (EMC directive/RoHS directive)										

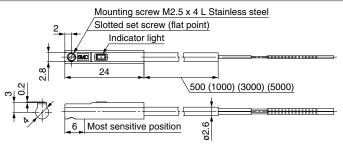
Oilproof Flexible Heavy-duty Lead Wire Specifications

Auto switch model		D-M9NA□	D-M9NAV□	D-M9PA□	D-M9PAV□	D-M9BA□	D-M9BAV□	
Sheath	Outside diameter [mm]	2.6						
Insulator	Number of cores	3 c	3 cores (Brown/Blue/Black)		2 cores (B	rown/Blue)		
	Outside diameter [mm]			0.8	38			
Conductor	Effective area [mm²]	0.15						
	Strand diameter [mm]	0.05						
Minimum bending radius [mm]				1	7			

- * Refer to the Web Catalog for solid state auto switch common specifications.
- * Refer to the **Web Catalog** for lead wire lengths.

Dimensions [mm]

D-M9□A



D-M9□AV

