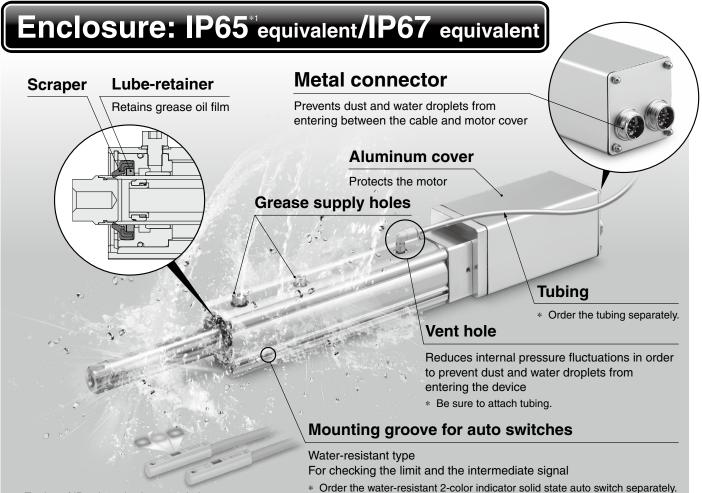
INFORMATION

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

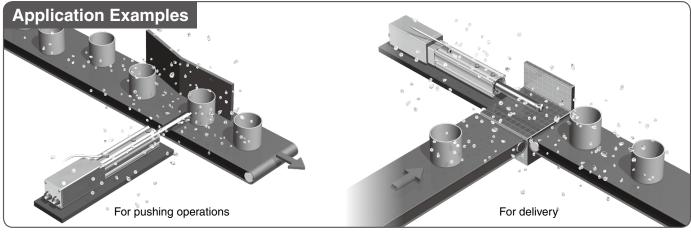
Battery-less Absolute Encoder Type Electric Actuator/Rod Type



*1 Testing of IP65 has also been carried out.

LEY-X8 Series

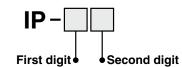
Battery-less absolute encoder compatible







Degrees of Protection



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

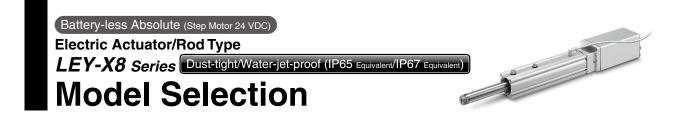
Degrees	Degree of protection	
0	Not protected	_
1	Protected against vertically falling water droplets	Dripproof type 1
2	Protected against vertically falling water droplets when enclosure is tilted up to 15°	Dripproof type 2
3	Protected against rainfall when enclosure is tilted up to 60°	Rainproof type
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

	<u> </u>	-							
D	egrees of prote	ection	Details						
IP65	Solid foreign objects	Dust-tight	Dust particles are prevented from entering the device.						
105	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 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.						

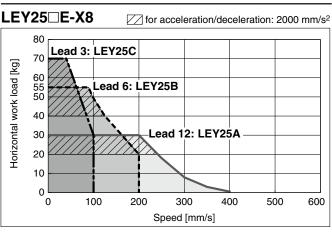
*1 Be sure to take appropriate protective measures if the product is to be used in an environment where it will be constantly exposed to water or fluids other than water splash. In particular, the product cannot be used in environments where oils, such as cutting oil or cutting fluid, are present.

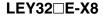




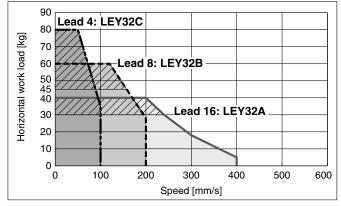
Speed–Work Load Graph (Guide)

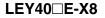




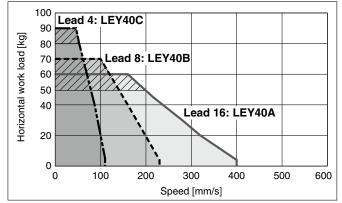


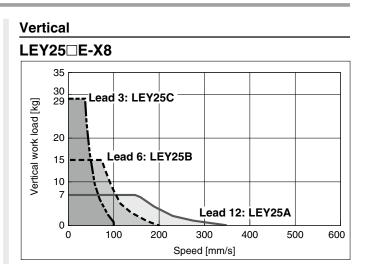
for acceleration/deceleration: 2000 mm/s²



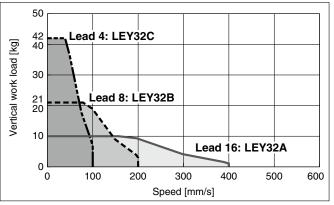


// for acceleration/deceleration: 2000 mm/s²

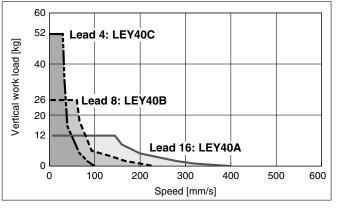










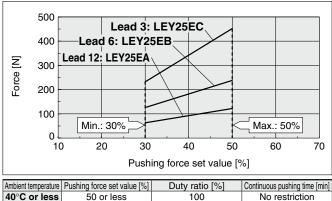


LEY-X8 Series

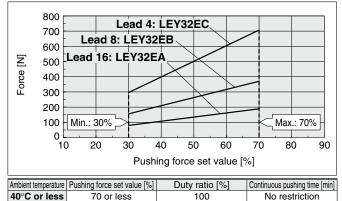
Force Conversion Graph (Guide)

Battery-less Absolute (Step Motor 24 VDC)

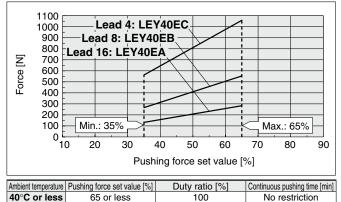




LEY32 E-X8



LEY40 E-X8



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

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

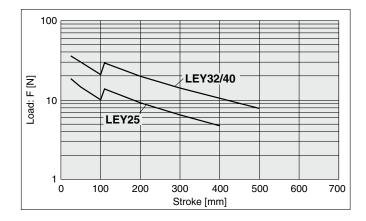
	-				
Model	Lead	Pushing speed [mm/s]	Pushing force (Setting input value)		
LEY25 E	A/B/C	21 to 35	40 to 50%		
LEY32□E	A	24 to 30	50 to 70%		
	B/C	21 to 30	501070%		
LEY40⊡E	A	24 to 30			
	B/C	21 to 30	50 to 65%		

<Set Values for Vertical Upward Transfer Pushing Operations>

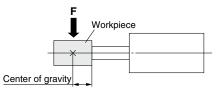
Model	LE	EY25] E	LE	EY32] E	LEY40⊟E			
Lead	Α	В	С	Α	В	С	Α	В	С	
Work load [kg]	2.5	5	10	4.5	9	18	7	14	28	
Pushing force		50%			70%		65%			

Battery-less Absolute (Step Motor 24 VDC) Dust-tight/Water-jet-proof (IP65 Equivalent/IP67 Equivalent)

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

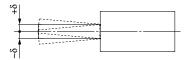


[Stroke] = [Product stroke] + [Distance from the rod end to the center of gravity of the workpiece]

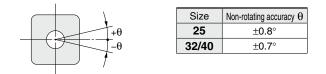


Rod Displacement: δ [mm]

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

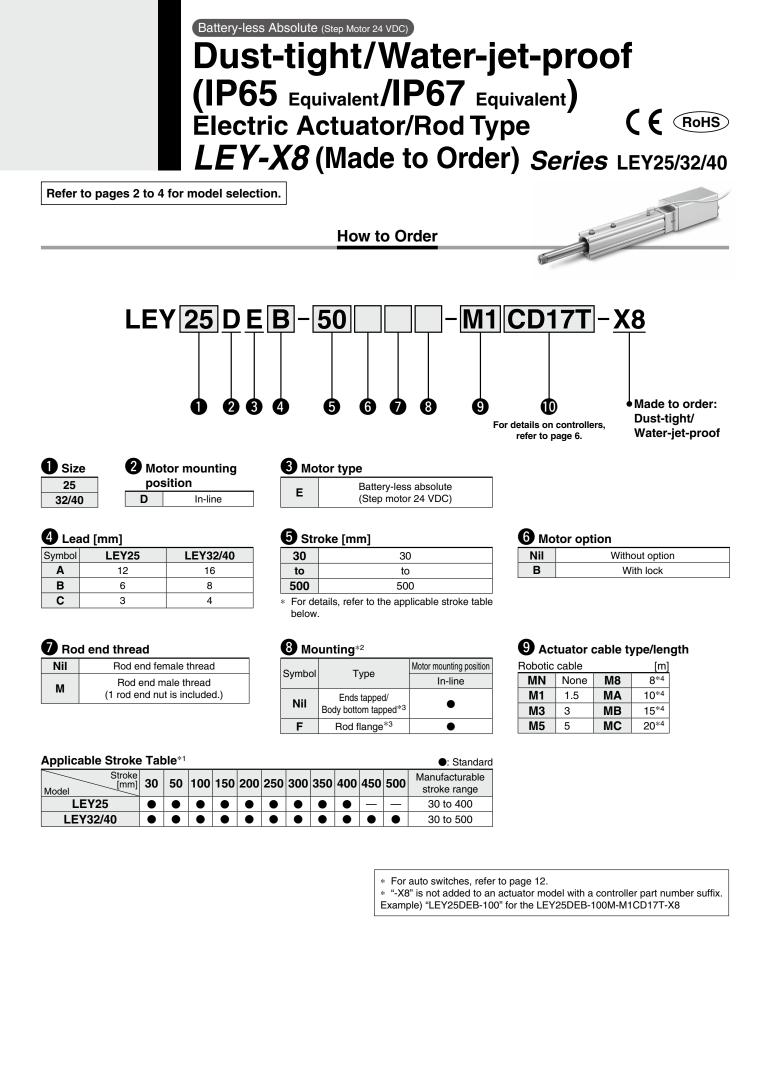


Non-rotating Accuracy of Rod

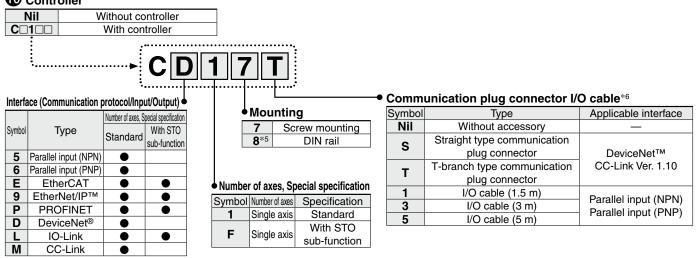


* Avoid using the electric actuator in such a way that rotational torque would be applied to the piston rod.

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.



Controller



- *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

[CE-compliant products]

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**.

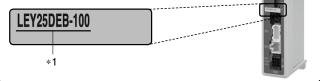
- *4 Produced upon receipt of order
- *5 The DIN rail is not included. It must be ordered separately.
- *6 Select "Nil" for anything other than DeviceNet[™], CC-Link, or parallel input.
 - Select "Nil," "S," or "T" for DeviceNet™ or CC-Link. Select "Nil," "1," "3," or "5" for parallel input.

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: https://www.smcworld.com

	Step data input type	EtherCAT direct input type	EtherCAT direct input type with STO sub-function	EtherNet/IP™ direct input type	EtherNet/IP™ direct input type with STO sub-function	PROFINET direct input type	PROFINET direct input type with STO sub-function	DeviceNet [®] direct input type	IO-Link direct input type	IO-Link direct input type with STO sub-function	CC-Link direct input type
Туре											
Series	JXC51 JXC61	JXCE1	JXCEF	JXC91	JXC9F	JXCP1	JXCPF	JXCD1	JXCL1	JXCLF	JXCM1
Features	Parallel I/O	EtherCAT direct input	EtherCAT direct input with STO sub-function	EtherNet/IP™ direct input	EtherNet/IP™ direct input with STO sub-function	PROFINET direct input	PROFINET direct input with STO sub-function	DeviceNet [®] direct input	IO-Link direct input	IO-Link direct input with STO sub-function	CC-Link direct input
Compatible motor				Bat	tery-less abs	solute (Step	motor 24 VI	DC)			
Max. number of						64 pointo					
step data						64 points					
Power supply voltage						24 VDC					



LEY-X8 Series

Specifications

Step Motor (Servo/24 VDC)

		Model		L	EY25□E->	(8	L	EY32□E->	(8	L	EY40□E->	(8		
			(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		
S	Speed [mm/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/deceleration/deceleration/deceleration/	ation [mm/s ²]	3000										
fice	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									
ctuator	Screw lead [12	6	3	16	8	4	16	8	4		
ctri	Impact/Vibra	tion resistand	ce [m/s²]*7					50/20						
Ă	Actuation ty	pe					Ball	screw (LEY	⊡D)					
	Guide type			Sliding bushing (Piston rod)										
	Enclosure*8			IP65 equivalent/IP67 equivalent*12										
	Operating te	mperature rar	nge [°C]	5 to 40										
		imidity range	[%RH]				90 or les	s (No conde	ensation)					
specifications	Motor size				□42			□56.4			□56.4			
ificat	Motor type					Batt	ery-less abs	solute (Step	motor 24 V	'DC)				
spec	Encoder						Batte	ery-less abs	olute					
Electric	Power suppl						2	4 VDC ±10	%					
	Power [W]*9	*11		N	lax. power 4	8	M	ax. power 1	04	M	ax. power 1	06		
Lock unit specifications	Type ^{*10}						Non-	magnetizing	j lock					
pecific	Holding forc	<u> </u>		78 157 294 108					421	127	265	519		
unit s	Power consu	umption [W]*1	1	5 5 5										
Lock	Rated voltag	e [V]		24 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. Vertical

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.

Indicates the max. power during operation (including the controller) *9

This value can be used for the selection of the power supply.

*10 With lock only

*11 For an actuator with lock, add the power consumption for the lock.

*12 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		

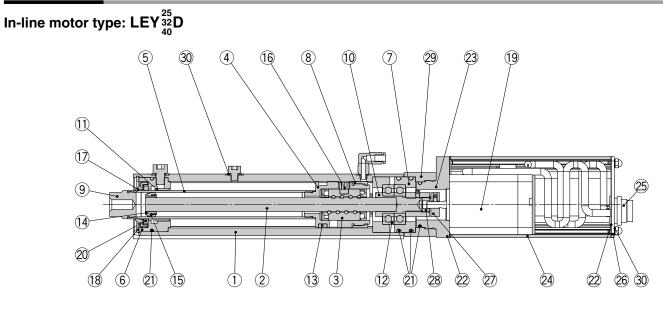
Additional Weight

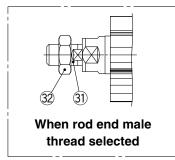
Additional Weight [kg]							
S	25	32	40				
Lock	0.35	0.65	0.65				
Rod end male	Male thread	0.03	0.03	0.03			
thread	Nut	0.02	0.02	0.02			
Rod flange (includ	0.17	0.20	0.20				

LEY-X8 Series

Battery-less Absolute (Step Motor 24 VDC) Dust-tight/Water-jet-proof (IP65 Equivalent/IP67 Equivalent)

Construction





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	

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.

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	

Dimensions

In-line	In-line motor type Origin*2																					
		Rod c	perati	ng range	<u>*1</u> /	Stroke	e end]			ease su	pply h	oles*	5									
				oke end						ent hole		_	1)×4									
			1	igin] ^{*3}	/	Y2				tach tub Y		D.: Ø	<u>94)**</u>				Ν	/lotor c	ption	1: N	lotor op	otion:
	H thread depth		[2]	Stroke /	² Y3													Withou			With le	
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			2	25																		
Rod er	nd male thre	ead: I																				
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				Size	B 1						ММ											
	'H₁[∏]			25	22				38 23		4 x 1.											
	C1			32/4							4 x 1.											
	L2								n the unit m at the		e origir	al										
				pos			position	1, 2 111	in at the	enu.												[]
	Stroke range		Α																			[mm]
Size	[mm]	Without		Vith lock	B		C I	D	EH E	V FI	1 F	V	G	I	н	J	K	L	М		O 1	R
25	30 to 100	262		312.5	89	.5	13 2	20	44 45	5.5 57	.6 57	7 0	61.4	M0 \	1.25	24	17	14.5	34		5 x 0.8	8
20	105 to 400	287		337.5	114	.5	13 2	20	44 4:	5.5 57	.0 57	./ (01.4	100)	1.25	24	17	14.5	34		5 X U.O	0
32	30 to 100	273		323	96		13 2	25	51 56	69 69	.6 79	.6 7	72.4	M8 >	1.25	31	22	18.5	40	M	6 x 1.0	10
	105 to 500 30 to 100	303 295		353 355	126 96																	
40	105 to 500	325		375	126		13 2	25	51 56	69 69	.6 79	.6 7	72.4	M8 >	1.25	31	22	18.5	40	M	6 x 1.0	10
	Otractica management			1 1	1		1	0	<u> </u>	1			0)-	ſ	- 		W	,			
Size	Stroke range [mm]	PA	PB	PC	PD	Q 1	Without	Q2	2 With loc	Q 3	Q 4	With	hout lock	2 5	lock	U	Without l	ock With	lock	Y 1	Y2	Y 3
	30 to 100																				71	
25	105 to 400	15.4	8.2	15.9	6.5	3.5	2 x ø	622	3 x ø22	28	18.7		—	2	23	0.9	155	2	05	28	96	19
32	30 to 100	15.4	8.2	15.9	7.1	3.5	2 x ø	122	3 x ø22	36	28		_		2	1	155	2	05	30	75.5	
	105 to 500		0.2			0.0	- ~ ~		0 / 2						-	•					105.5	
40	30 to 100 105 to 500	15.4	8.2	15.9	7.1	3.5	2 x ø	22	3 x ø22	36	28		—	3	32	1	177	2	27	30	75.5	
Dedu				1 1	I		1				1					I					100.0	
Body		appe	ea												[n	nm]						
Size	Stroke range [mm]	MA		МС	MD	I	мн	М	L	MO	N	IR	X	A	ХВ	;						
	30 to 39			24	32						-											
	40 to 100					-		50)													
25	101 to 124	20		42	41		29			l5 x 0.8	6	6.5	4	ł	5							
	125 to 200			59	49.5	_		75	5													
	201 to 400 30 to 39			76 22	<u>58</u>				_													
	40 to 100				36	-		50)													
32/40	101 to 124	25		36	43		30		1	M6 x 1	8	8.5	5	5	6							
	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.

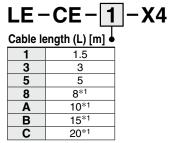
*5 It is recommended to take appropriate protective measures if the product is to be used in an environment where fluids other than water splash. In particular, the product cannot be used in environments where cutting oil, cutting fluid, etc., are present.

* The direction of rod end width across flats (\Box K) differs depending on the products.



Option: Actuator Cable

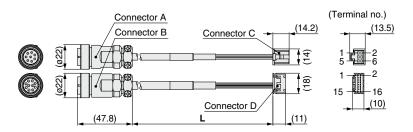
[Metal connector robotic cable for battery-less absolute (Step motor 24 VDC)]



*1 Produced upon receipt of order

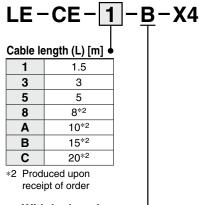
Weight

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	
LE-CE-C-X4	2290	



Signal	Connector A terminal no.		Cable color	Connector C terminal no.
Ā	1		Red	1
A	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
A	5		Black (Red)	6
Ā	6		Red	7
В	7		Black (Orange)	8
B	8		Orange	9
Shield	9	LYY	Black	3

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



With lock and sensor

Weight	

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	
LE-CE-C-B-X4	2340	

Connector A Connector B Connector C (14.2)	(Terminal no.) → (13.5)
	1 - 2 5 - 2 - 6
	1 - 2 15 - 16
 Connector D	_ → (10)

Signal	Connector A terminal no.		Cable color	Connector C terminal no.
Ā	1 .		Red	1
A	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
A	5		Black (Red)	6
Ā	6		Red	7
В	7		Black (Orange)	8
B	8		Orange	9
Shield	9	YY	Black	3
Signal	Connector E terminal no.			
Lock (+)	4		Red	4
Lock (-)	3		Black	5
Sensor (+)	1		Brown	1
Sensor (-)	2		Blue	2

SMC

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

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.



∆Caution

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

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

[g]

Dimensions

D-M9⊡A

Auto Switch Specifications

PLC: Programmable Logic Controller

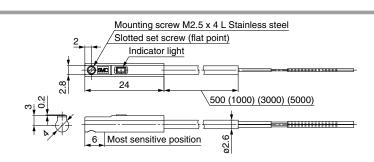
D-M9□A, D-M9□AV (With indicator light)										
Auto switch model	D-M9NA	D-M9NAV	D-M9PA	D-M9PAV	D-M9BA	D-M9BAV				
Electrical entry direction	In-line	Perpendicular	In-line	Perpendicular	In-line	Perpendicular				
Wiring type		3-w	2-wire							
Output type	NPN		PNP		—					
Applicable load	IC circuit, Relay, PLC				24 VDC relay, PLC					
Power supply voltage	Ę	5, 12, 24 VDC	—							
Current consumption	10 mA or less				—					
Load voltage	28 VDC	or less —		24 VDC (10 to 28 VDC)						
Load current	40 mA or less				2.5 to 40 mA					
Internal voltage drop	0.8 V or l	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

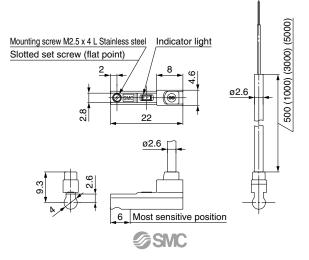
Auto switch model		D-M9PA	D-M9PAV	D-M9BA	D-M9BAV		
Outside diameter [mm]	2.6						
Number of cores	3 cores (Brov	3 cores (Brown/Blue/Black)		2 cores (B	rown/Blue)		
Outside diameter [mm]		0.8	38				
Effective area [mm ²]	0.15						
Strand diameter [mm]	0.05						
Minimum bending radius [mm]		17					
	Outside diameter [mm] Number of cores Outside diameter [mm] Effective area [mm ²] Strand diameter [mm]	Outside diameter [mm] Number of cores 3 cores (Brow Outside diameter [mm] Effective area [mm²] Strand diameter [mm]	Outside diameter [mm] 2. Number of cores 3 cores (Brown/Blue/Black Outside diameter [mm] 0.8 Effective area [mm²] 0.7 Strand diameter [mm] 0.6	Outside diameter [mm] 2.6 Number of cores 3 cores (Brown/Blue/Black) Outside diameter [mm] 0.88 Effective area [mm²] 0.15 Strand diameter [mm] 0.05	Outside diameter [mm] 2.6 Number of cores 3 cores (Brown/Blue/Black) 2 cores (B Outside diameter [mm] 0.88 Effective area [mm²] 0.15 Strand diameter [mm] 0.05		

* Refer to the Web Catalog for solid state auto switch common specifications.

* Refer to the Web Catalog for lead wire lengths.



D-M9□AV



Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.