

MESH2 series

MINIATURE ELECTRIC ACTUATOR (WITH MOTOR)



Selector table



Applications



Motor selection



Controller



Motor type Step motor

Transmission Ball screw

Environment Standard

Guide type Linear guideway

Specification

Model		MESH2		
Size		16	20	
Positioning repeatability (mm)		±0.02		
Lead (mm)		2	2	8
Maximum speed *1	Motor SM/ BM (mm/s)	≤50	≤100	≤400
	Motor OBM (mm/s)	≤50		≤200
Rated load *2	Horizontal (kg)	3	6	1.5
	Vertical (kg)	0.8	1.8	0.8
Max. thrust *1,3,4 (N)		24 ~ 68	64 ~ 195	18 ~ 48
Stroke (mm)		30 / 50		
Motor size (mm)		□20	□28	
Rated voltage		DC 24V±10%		
Slot-type photomicro sensor		RLT 		

*1. The speed and thrust may change depending on the cable length, load, stroke and mounting conditions.

*2. The rated load capacity decreases as the speed increases.

*3. The accuracy of max. thrust is ± 20%.

*4. Max. force for MESH2 is from 30% ~ 90%.

Order example

MESH2 — 16 L02 — 30 — CK10 03 N 015

Model

Size	Ball screw lead
16	L02 2 mm
20	L02 2 mm
	L08 8 mm

Stroke

30	30 mm
50	50 mm

I/O type

N	NPN
* Not suitable for CM10.	

I/O cable length

015	1.5 m (standard)
03	3 m
* Not suitable for CM10.	

Motor + Encoder cable

Controller	Motor
CK10	SM
CM10 *1	OBM
CM20 *1	BM

*1. Sensors would be needed.

*2. Only for CM10 / CM20.

*3. Only for CK10.

*4. Please note the installation space.

Slot-type photomicro sensor set

RZ — ES3 — 16 — N

Sensor set

Size

16
20

Sensor type

N	NPN
P	PNP

* With RLT sensor, mounting seat, bolt, nut and cable 2m.

Accessory kits

AK — ES3 — 16

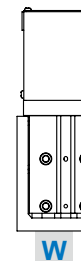
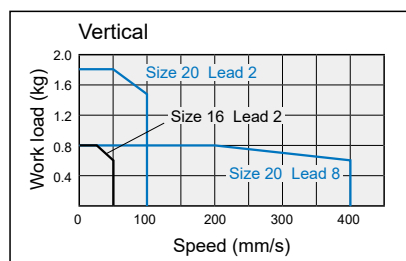
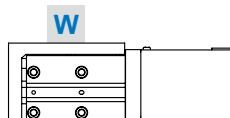
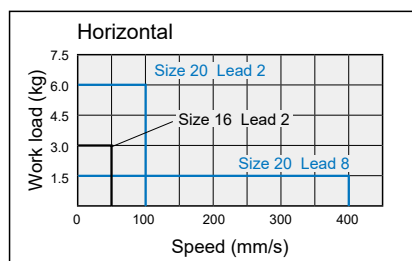
Accessory kits

Size

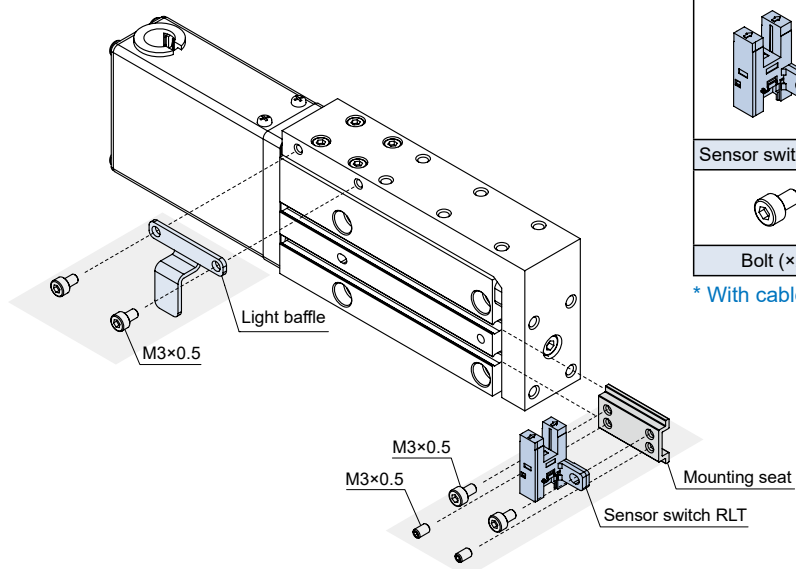
16
20

* With light baffle and bolt.

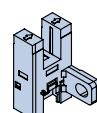
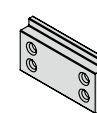
Speed-load curve diagram



Slot-type photomicro sensor mounting

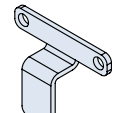


Sensor set

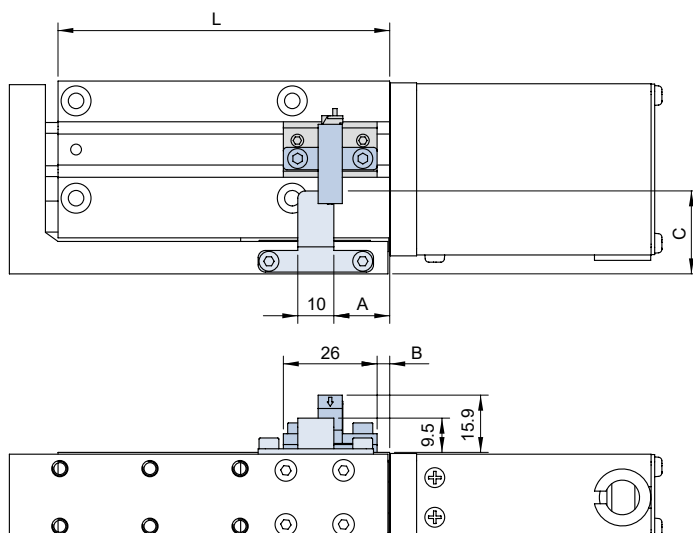
	
Sensor switch (x1)	Mounting seat (x1)
	
Bolt (x2)	Bolt (x2)

* With cable 2m.

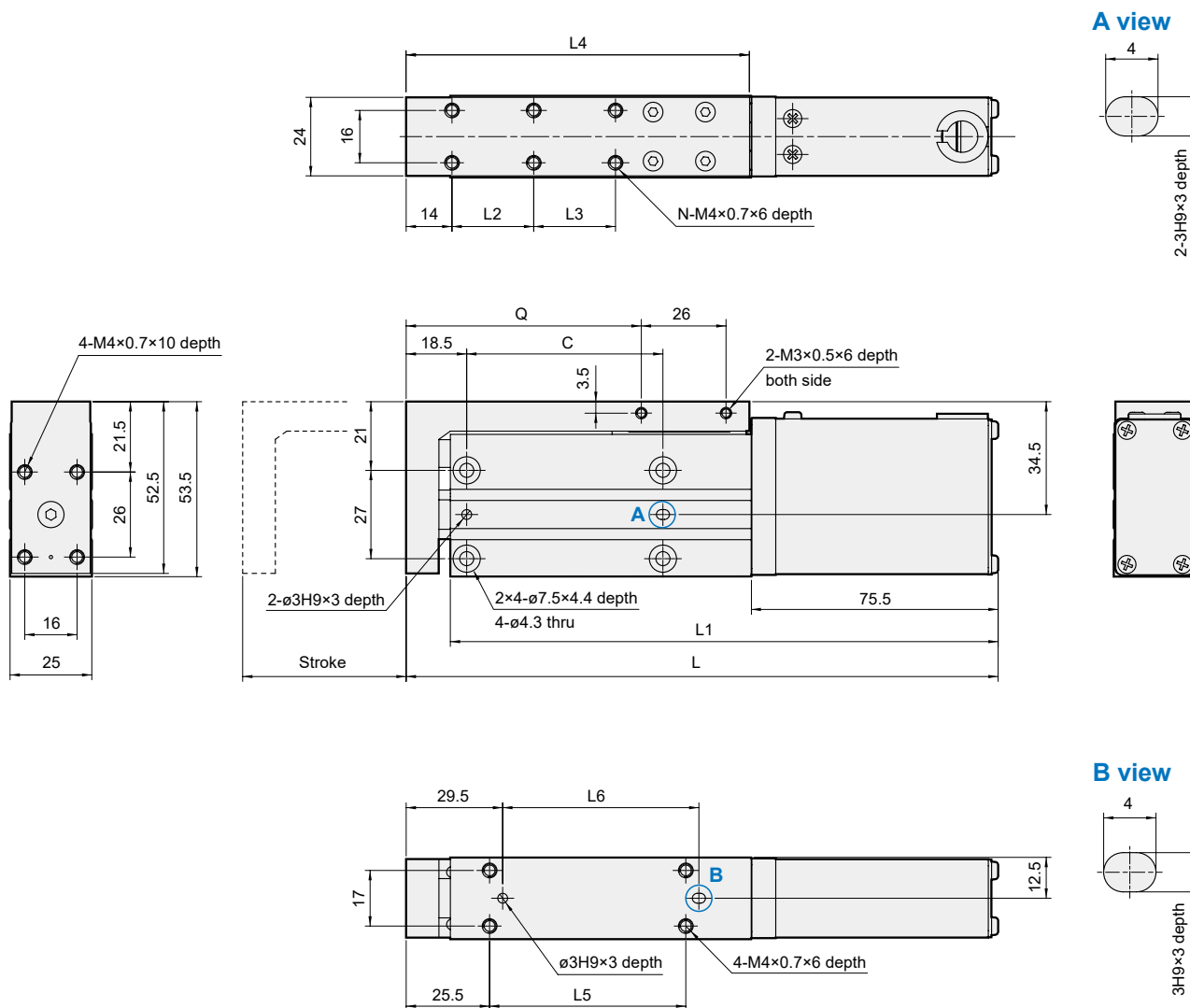
Accessory kits


Light baffle (x1)

Bolt (x2)

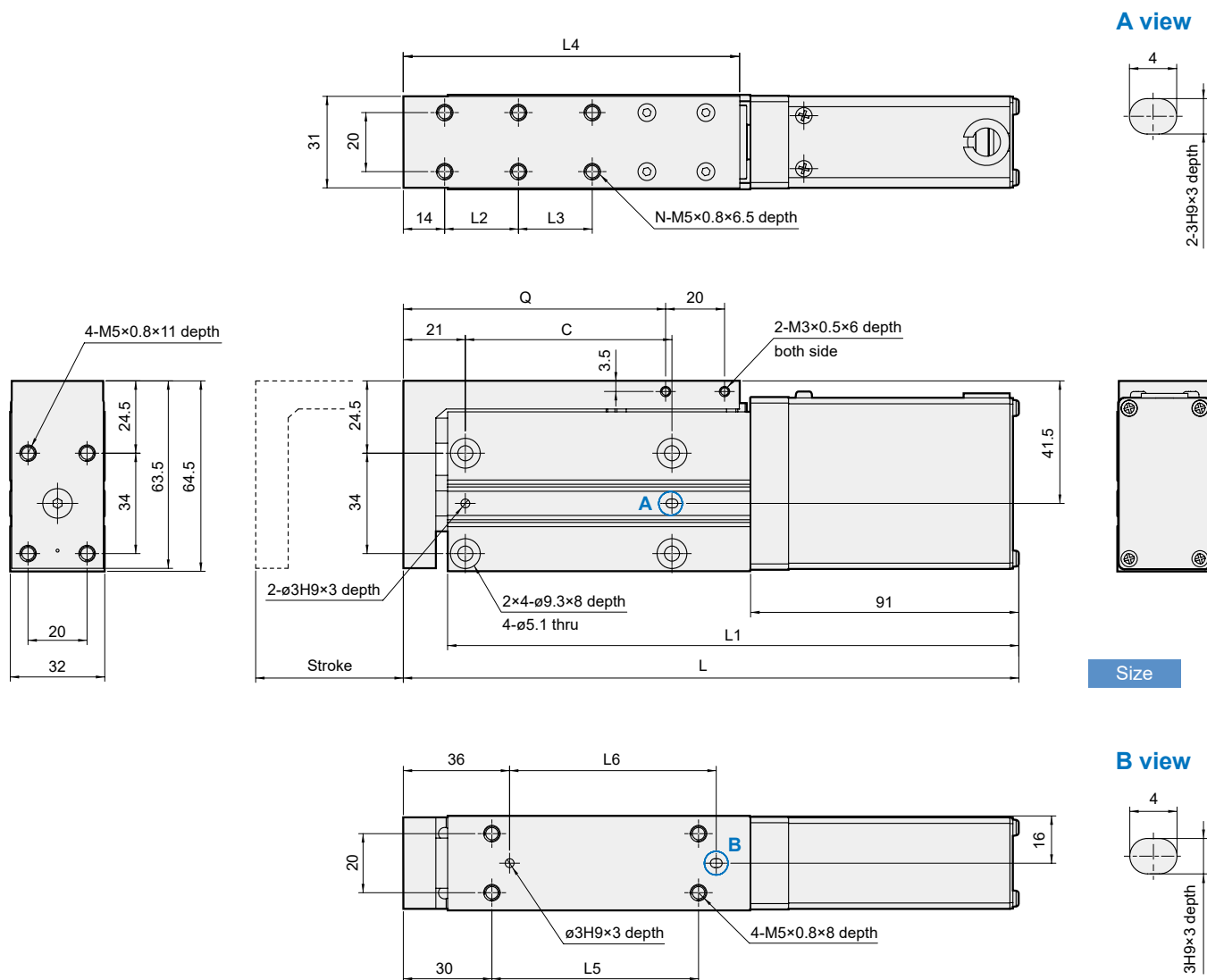


Code	A	B	C	L	
Stroke Size				30	50
16	15.5	3.5	23	72	92
25	13.5	1.5	31	82.5	102.5



Unit: mm

Stroke	C	L	L1	L2	L3	L4	L5	L6	N	Q	Weight (g)
30	40	161	147.5	30	—	85	40	40	4	52	500
50	60	181	167.5	25	25	105	60	60	6	72	562



Unit: mm

Stroke	C	L	L1	L2	L3	L4	L5	L6	N	Q	Weight (g)
30	40	188.5	173.5	30	—	97	40	40	4	69	950
50	70	208.5	193.5	25	25	114	70	70	6	89	1049