



LINEAR ACTUATOR

BBS35W8

BBS35W8 Linear Actuator

BBS35W8 is an actuator with low noise level, compact structure and small sizes. It has below models of BBS35W8-1000N, BBS35W8-750N, BBS35W8-500N, BBS35W8-250N, BBS35W8-125N, BBS35W8-70N. BBS35W8 is characterized by low noise level, fast speed as well excellent water-proof performances (Max. IPX6)



Stock Code: BBS35W8

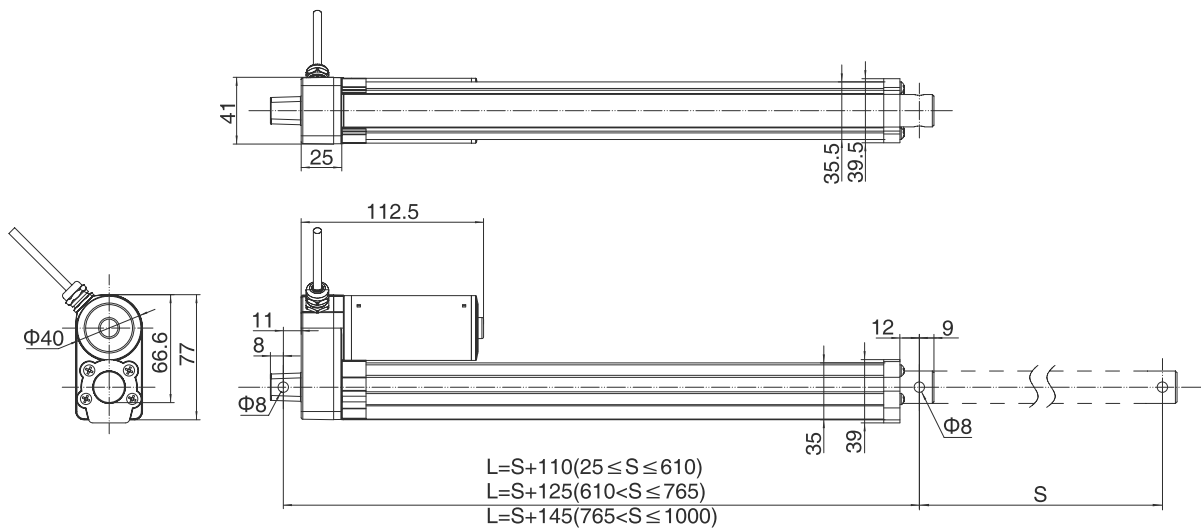
General Features

Load in push (N):	1000 750 500 250 125 70
Load in pull (N):	1000 750 500 250 125 70
Stroke length:	Common: 25-1000mm (in steps of 4mm) With dual hall sensor: 25-1000mm (in steps of 4mm) With potentiometer: 1000N: 25-520mm (in steps of 4mm) 750N: 25-800mm (in steps of 4mm) ≤500N: 25-1000mm (in steps of 4mm)
Installation dimensions (mm):	Common and with dual hall sensor L=S+110 (25≤S≤610) L=S+125(610<S≤765) L=S+145 (765<S≤1000) With potentiometer L=S+140 (25≤S≤610) L=S+155 (610<S≤765) L=S+175 (765<S≤1000)
Colour:	Silver gray
Limit switch:	Built-in (electrical)
Weight:	About 1.5kg (different stroke length and installation dimensions with different weight)
Noise level:	≤55dB (environmental noise≤40dB)
Static bending moment:	No lateral load
Duty cycle:	10%, max. 2min. continuous use
IP grade:	Max. IPX6
Options:	Hall sensor, With potentiometer
Standards:	EN 60335-1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019 ANSI/AAMI ES60601-1: A1:2012, C1:2009/(R)2012 and A2:2010/(R)2012

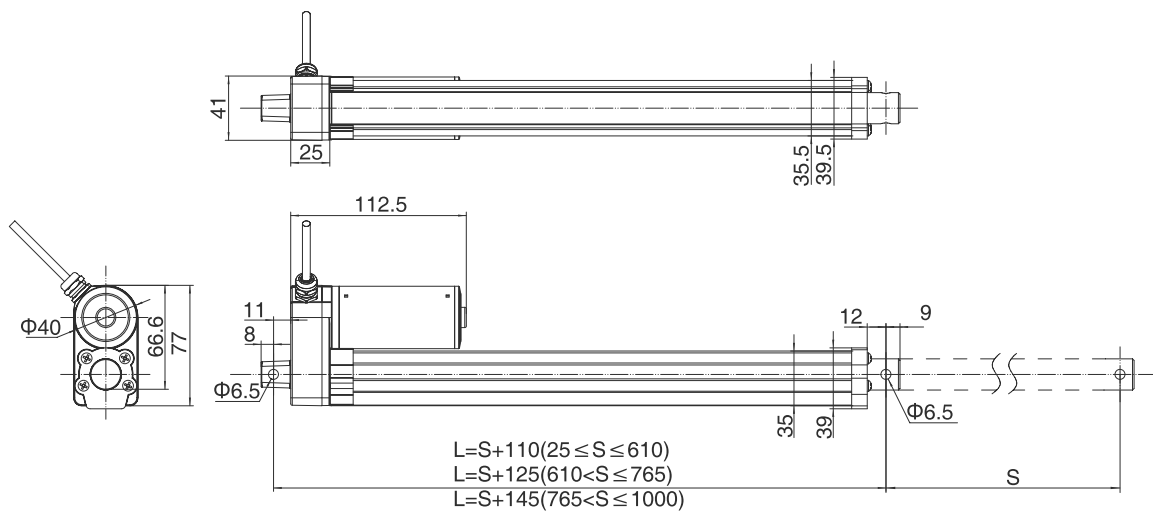
Dimension Drawing

Common version and Hall version

Top clevis F47, end clevis 37

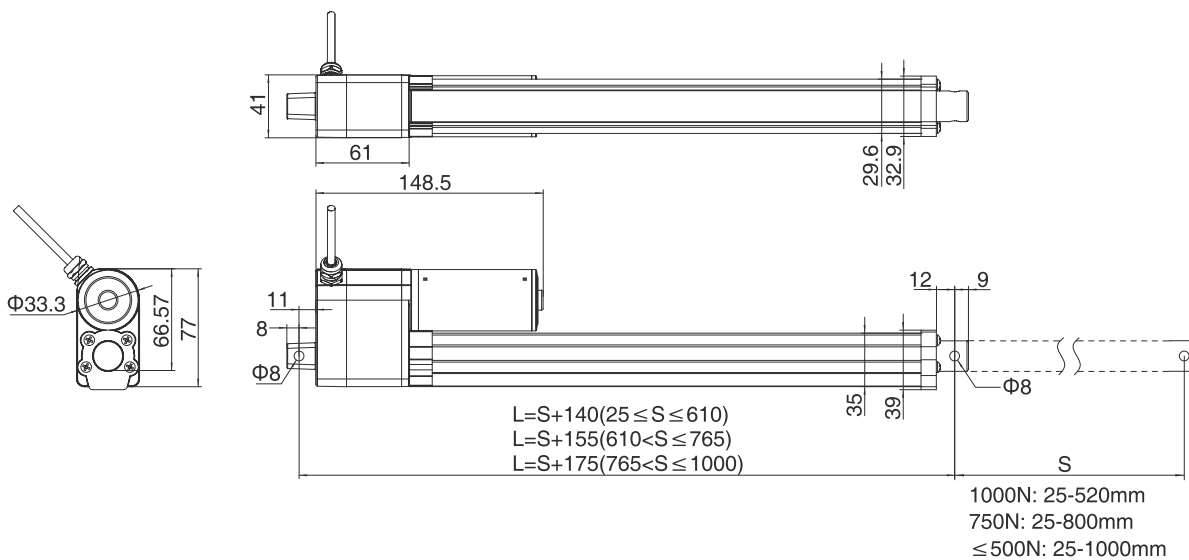


Top clevis F46, end clevis 38

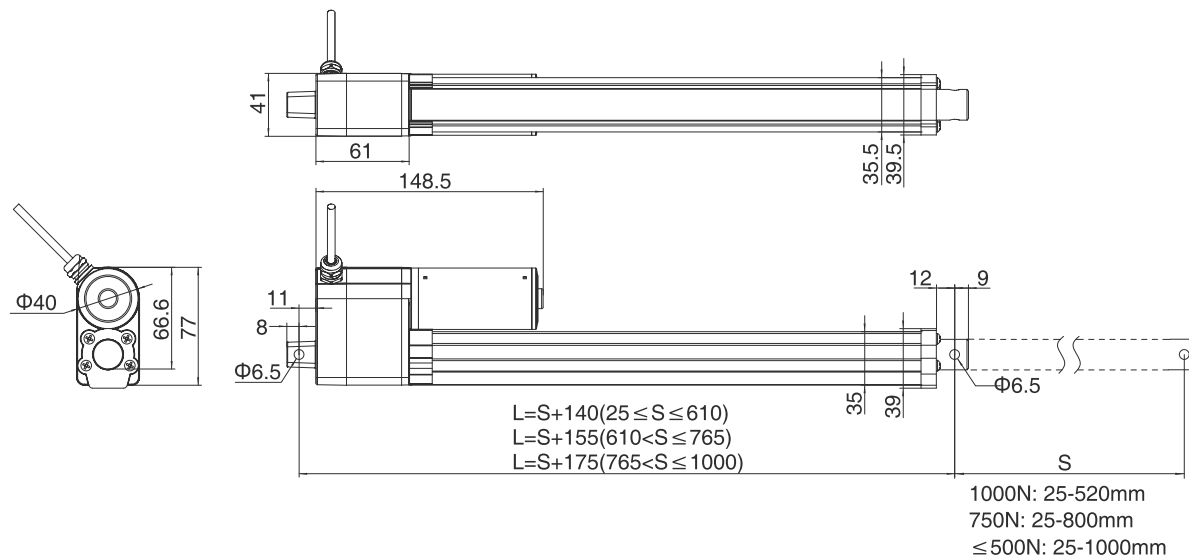


Potentiometer version

Top clevis F47, end clevis 37



Top clevis F46, end clevis 38



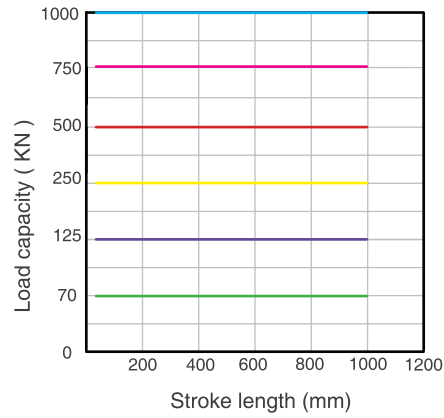
Technical Data-Standard value

Voltage (VDC)	Spindle pitch (mm)	Max. load in push (N)	Max. load in pull (N)	Mechanical Self-lock (N)	Speed at no load/full load (mm/s)	Current at full load (A)
12	2	1000	1000	1000	7/5	≤3.5
12	3	750	750	750	10/7.5	≤3.5
12	5	500	500	500	24/17	≤3.5
12	7.5	250	250	250	35/26	≤3.5
12	10	125	125	125	50/34.5	≤3.5
12	20	70	70	70	90/67.5	≤3.5
24	2	1000	1000	1000	7/5.2	≤2.0
24	3	750	750	750	10/7.9	≤2.0
24	5	500	500	500	24/18	≤2.0
24	7.5	250	250	250	35/27	≤2.0
24	10	120	120	120	50/36	≤2.0
24	20	70	70	70	90/71	≤2.0
36	2	1000	1000	1000	7/5.2	≤1.2

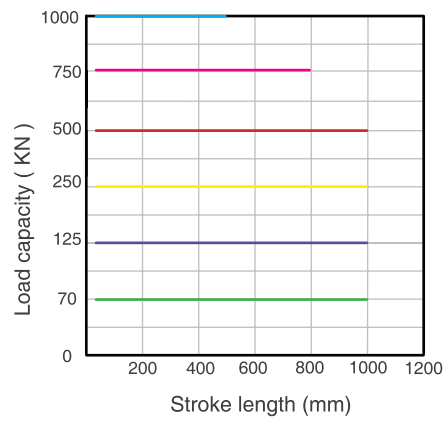
Remarks: It can achieve better self-locking ability with Bibus control box;
 The above data is the standard value of the test data (inspection specification) at room temperature of 25°C.

Stroke length versus load

Common version and Hall version



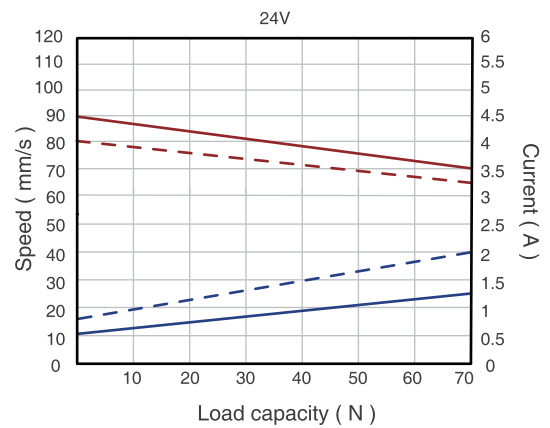
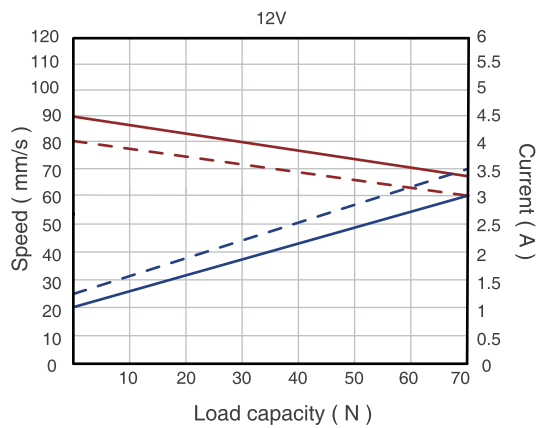
Potentiometer version



Characteristic

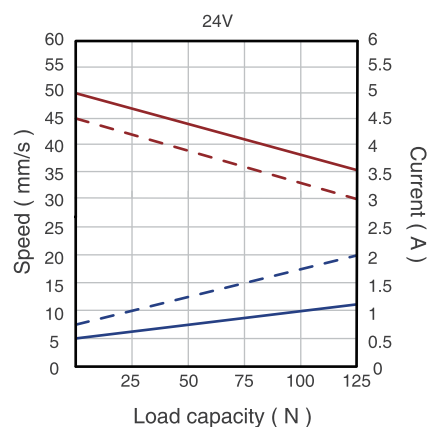
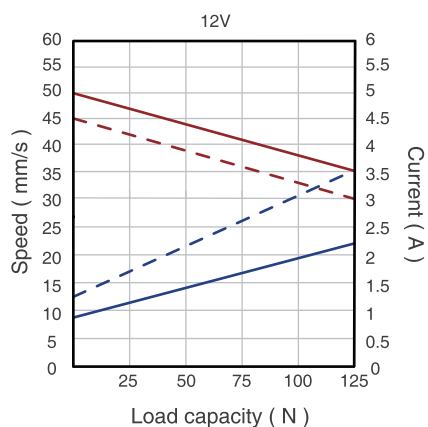
Typical speed ———
Min. speed - - - - -
Typical current ———
Max. current - - - - -

70N

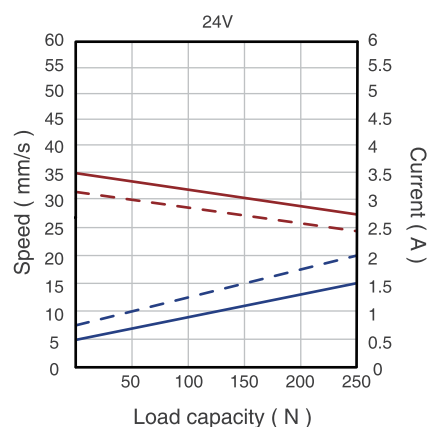
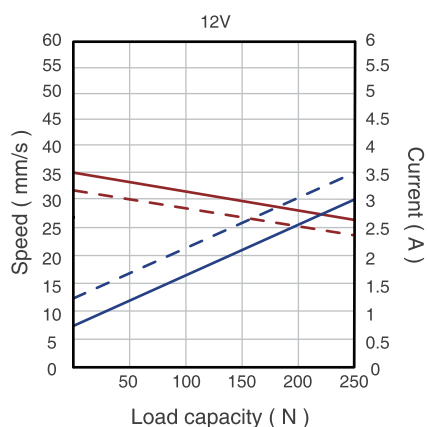


Typical speed ———
Min. speed - - - - -
Typical current ———
Max. current - - - - -

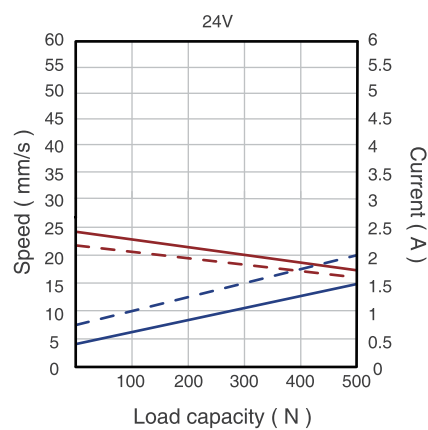
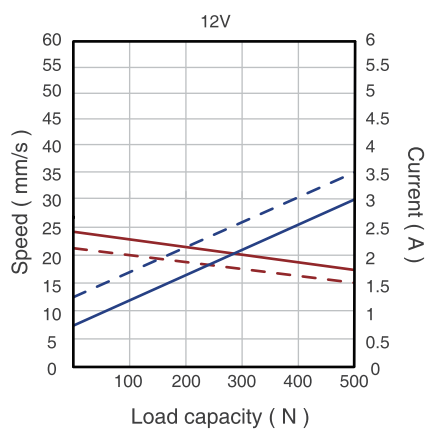
125N



250N

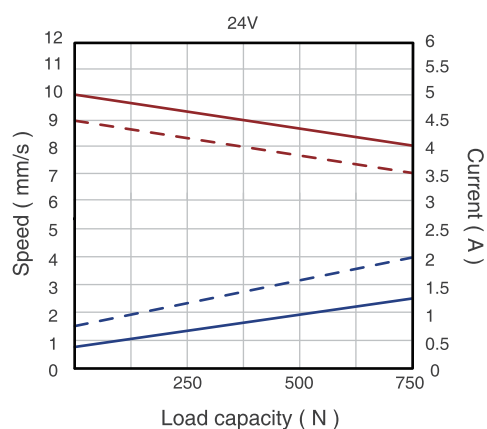
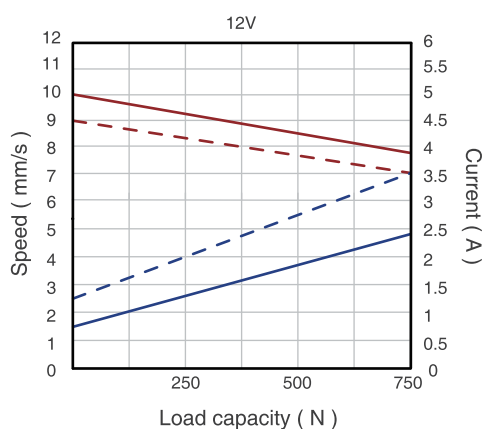


500N

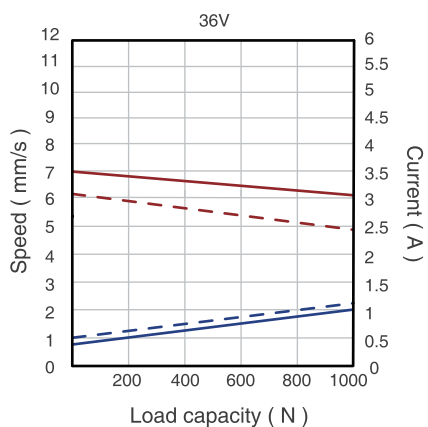
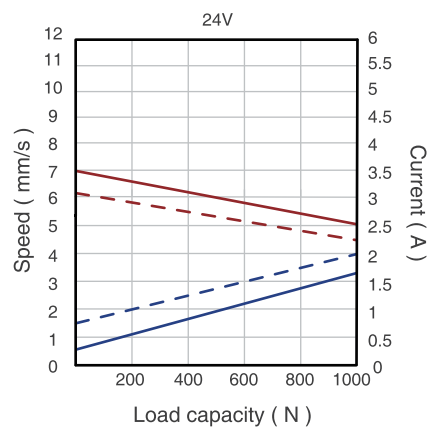
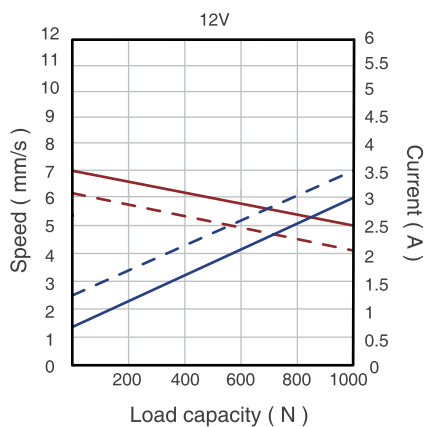


Typical speed ———
Min. speed - - - - -
Typical current ———
Max. current - - - - -

750N



1000N



Ordering Key

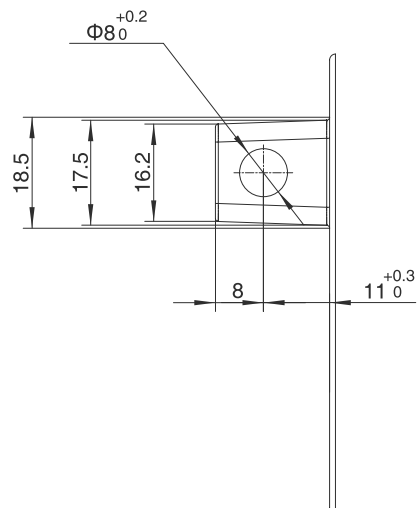
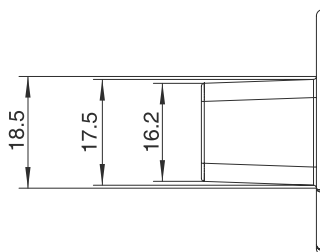
Take **BBS35W8D0D757D512152/292VG38LF460211D5** for example

Model	BBS35W8	
Optional features	X	0 = Standard / Y = Hall sensor / D = Potentiometer
Load in push	X	1 = 1000N / 0D75 = 750N / 0D5 = 500N 0D25 = 250N / 0D125 = 125N / 0D07 = 70N
Speed at full load	X	5 = 5mm/s 5D2 = 5.2mm/s 7D5 = 7.5mm/s 7D9 = 7.9mm/s 17 = 17mm/s 18 = 18mm/s 26 = 26mm/s 27 = 27mm/s 34D5 = 34.5mm/s 36 = 36mm/s 67D5 = 67.5mm/s 71 = 71mm/s
Input voltage	XX	12 = 12VDC / 24 = 24VDC / 36 = 36VDC
Stroke length/ Installation dimension	XXX/XXX	Stroke length = XXX Retracted length = XXX
Clevis directions	X	H = H direction / V = V direction
Color	X	G = Gray
End clevis specification	XX	37 = hole 8.0 without slot 38 = hole 6.5 without slot (can be customized)
End clevis material	X	L = Aluminum alloy
Top clevis specification	XX	F47 = W type, hole diameter 8.0 F46 = W type, hole diameter is 6.5
Brake specification	X	0 = Standard
Type of plug and cable	XX	02 = 4 pin DIN plug 10 = 5 pin DIN plug
Cable length	XXX	2D0 = 2m / 1D5 = 1.5m / 0D5 = 0.5m

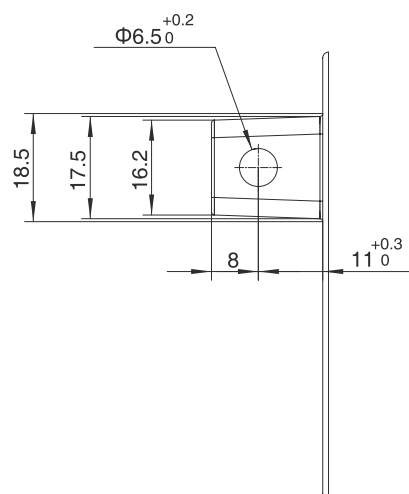
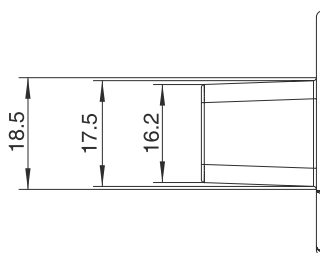
Ordering Details

Dimension drawing of clevis

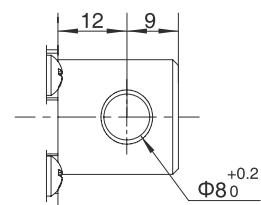
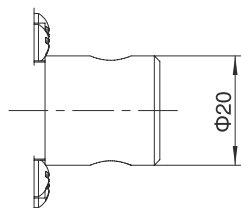
End clevis: 37



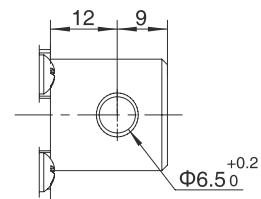
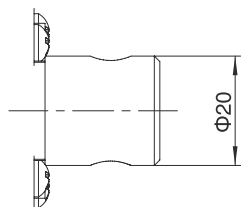
End clevis: 38



Top clevis: F47



Top clevis: F46

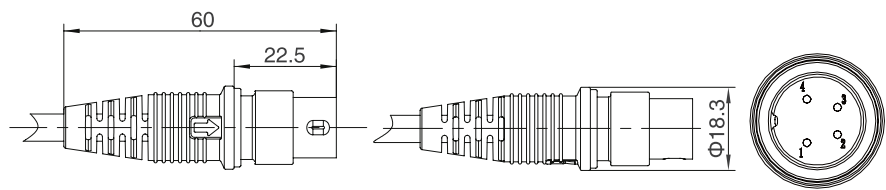


Motor wire

4-pin straight plug (standard)

Matching controller: BBSB35Q/
BBSB35T/ BBSB35R/ BBSB35R1/
BBSB35S

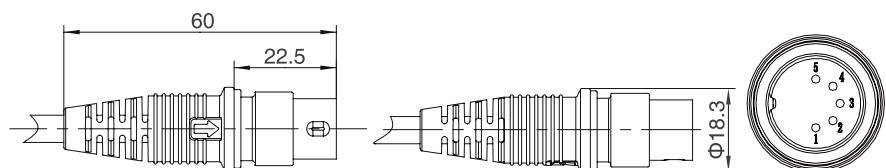
Pin	Color	Function
1	NC	Not connected
2	Brown	Powered with +, actuator going down
3	Blue	Powered with +, actuator going up
4	NC	Not connected
Outer ring	NC	Not connected



5 pin DIN plug (with hall sensor)

Matching controller: BBSB35Q/
BBSB35T/ BBSB35R/ BBSB35R1/
BBSB35S

Pin	Color	Function
1	Red	5V
2	Brown	Powered with +, actuator going down
3	Black	GND
4	Blue	Powered with +, actuator going up
5	Yellow	Hall signal 1
Outer ring	Orange	Hall signal 2

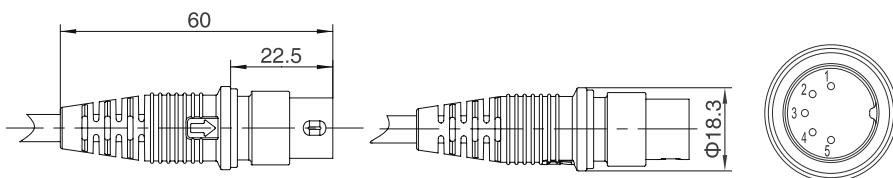


5 pin DIN plug (with potentiometer)

Matching controller: BBSB35Q/
BBSB35T/ BBSB35R/ BBSB35R1/
BBSB35S



Pin	Color	Function
1	Red	0 Ω
2	Brown	Powered with +, actuator going down
3	Black	GND
4	Blue	Powered with +, actuator going up
5	Yellow	10,000 Ω





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