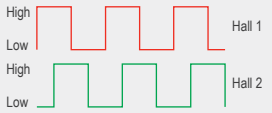
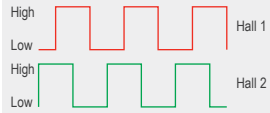


Wiring with Flying Leads

• Without hall effect sensors

	Wire color	Definition	Comments
Power wires	White	DC power	Connect white wire to "Vdc +" & black wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.
	Black		

• With dual hall effect sensors

	Wire color	Definition	Comments														
Power wires	Blue	DC power	Connect blue wire to "Vdc +" & Brown wire to "Vdc -" of DC power to extend the actuator. Switch the polarity of DC input to retract it.														
	Brown																
Signal wires	Yellow	Vin	Voltage input range: 5 ~ 20V														
	Red	Hall 1 output	High= Input - 1.2V (±0.6V) Low= GND Hall signal data: <div style="display: flex; justify-content: space-around; align-items: center;">   </div>														
	Green	Hall 2 output	Hall effect sensor resolution: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Model No.</th> <th>Resolution (pulses/mm)</th> </tr> </thead> <tbody> <tr> <td>FD40-XXDF4-XXX.XXX-XXXHXXX</td> <td>7.00</td> </tr> <tr> <td>FD40-XXDF8-XXX.XXX-XXXHXXX</td> <td>3.50</td> </tr> <tr> <td>FD40-XXEF4-XXX.XXX-XXXHXXX</td> <td>7.00</td> </tr> <tr> <td>FD40-XXEF6-XXX.XXX-XXXHXXX</td> <td>4.66</td> </tr> <tr> <td>FD40-XXEF8-XXX.XXX-XXXHXXX</td> <td>3.50</td> </tr> <tr> <td>FD40-XXEH8-XXX.XXX-XXXHXXX</td> <td>1.75</td> </tr> </tbody> </table>	Model No.	Resolution (pulses/mm)	FD40-XXDF4-XXX.XXX-XXXHXXX	7.00	FD40-XXDF8-XXX.XXX-XXXHXXX	3.50	FD40-XXEF4-XXX.XXX-XXXHXXX	7.00	FD40-XXEF6-XXX.XXX-XXXHXXX	4.66	FD40-XXEF8-XXX.XXX-XXXHXXX	3.50	FD40-XXEH8-XXX.XXX-XXXHXXX	1.75
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FD40-XXEF8-XXX.XXX-XXXHXXX	3.50																
FD40-XXEH8-XXX.XXX-XXXHXXX	1.75																
Black	GND																

Ordering Key

		FD40 - 24 E F8 - 190 . 240 - 3 2 0 H 1 R A
Motor	D: Default motor E: Enhanced motor	
Motor and spindle type	F4: 3500rpm / 4mm pitch F6: 3500rpm / 6mm pitch F8: 3500rpm / 8mm pitch H8: 3500rpm / 8mm pitch	
Retracted length	XXX (refer to page 4)	
Extended length	XXX (refer to page 4)	
Front connector	2: Drilled hole (only for models with max. load $\leq 2000\text{N}$) 3: Metal slot 6: Plastic slot (only for models with max. load $\leq 2000\text{N}$)	
Rear connector	2: Metal 4: Plastic (only for models with max. load $\leq 2000\text{N}$)	
Pivot orientation of rear connector	0: 0° (standard) 9: 90°	
Positioning feedback	0: None H: Hall effect sensor x 2	
Option	0: None 1: Push only extension tube 2: PTC thermal protection 3: Push only + PTC thermal protection	
Motor position	R: Motor position on right side (standard) L: Motor position on left side	
Cable	0: 300mm straight 1: 1000mm straight 2: 450mm with 300mm coiled A: Direct-Cut cable DL1, without control box (refer to page 7)	