

Directional Control Driver for Electric Cylinder

Series LC3F2



How to Order

LC3 F2 12 5 A3 B

Series

F2 Small sized DC motor driver

Power supply

5 24 VDC

Applicable motor

A3	DC motor (cylinder size 3)
A5	DC motor (cylinder size 5)

Housing set (Connector set)

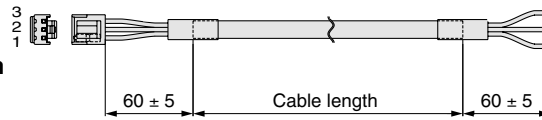
A	Housing for CN1, 2, 3 (connector) & contact (connector pin) are included as an accessory.
B	Nothing included.

Option

● Cable for power supply terminal

LC3F2 1 C1-02-1

Cable type	Cable length
C1 Cable for CN1 power supply terminal	01 1 m
	02 2 m



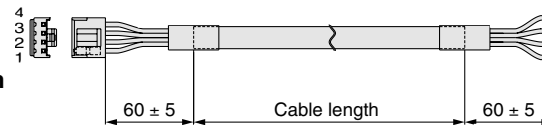
CN1 Power Supply Terminal Table

Terminal	Function	Pin number	Optional cable color
FG	Frame ground	1	Yellow/Green
DC (+)	Driver power supply (+24 V)	2	Brown
DC (-)	Driver power supply (0 V)	3	Blue

● Cable for control terminal

LC3F2 1 C2-02-1

Cable type	Cable length
C2 Cable for CN2 control terminal	01 1 m
	02 2 m



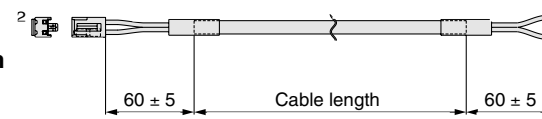
CN2 Control Terminal Table

Terminal	Function	Pin number	Optional cable color
COM	Common terminal	1	White
ON	Output ON command input	2	Red
SET	Adjusted thrust command input	3	Yellow
A-PHASE	Traveling direction command input	4	Orange

● Cable for motor output terminal

LC3F2 1 C3-02-1

Cable type	Cable length
C3 Cable for CN3 motor output terminal	02 2 m
	05 5 m



CN3 Motor Output Terminal Table

Terminal	Function	Pin number	Optional cable color
OUTA	Motor output A (Blue)	1	Blue
OUTB	Motor output B (Red)	2	Red

● Housing set (Connector set)

LC3F2 1-C0

Housing for power supply terminal (Connector)	1 pc.	VHR-3N: J.S.T. Mfg Co., Ltd.)
Housing for control terminal (Connector)	1 pc.	VHR-4N: J.S.T. Mfg Co., Ltd.)
Housing for motor output terminal (Connector)	1 pc.	VHR-2N: J.S.T. Mfg Co., Ltd.)
Contact (Connector pin)	12 pcs.	BVH-21T-P1.1: J.S.T. Mfg Co., Ltd.)

⚠ Caution

● Do not apply repetitive bending or pulling stress to the cable.

Wiring with repetitive bending or pulling stress to the cable will likely cause the cable to break.

● In the event of crimping the contact (connector pin) and wire use the specified tools as well as the recommended cable

Crimping tool: YC-160R (J.S.T. Mfg Co., Ltd.)

Pulling tool: EJ-NV (J.S.T. Mfg Co., Ltd.)

Recommended cable connection (common for individual cable) AWG22 (0.5 mm²) Insulated wire O.D. 1.7 to 3.0 mm with shield
Heat resistance is more than 80°C.

Maximum cable length

CN1 cable for power supply terminal	2 m
CN2 cable for control terminal	2 m
CN3 cable for motor output terminal	5 m

● Shield is attached with an optional cable for the LC3F2 series.

When grounding a shield, remove the sheath and use a metal U-crip or P-crip.