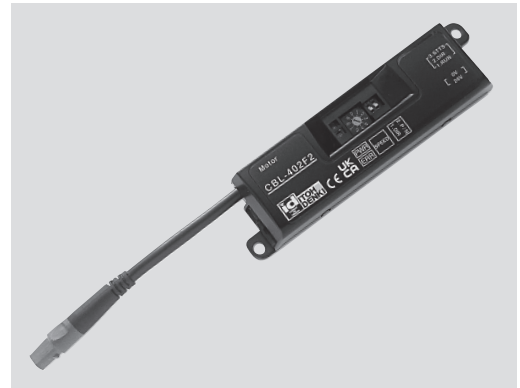


Driver card for PM380/427LS



CBL-402F2

[Applicable MDR models] PM380LS·PM427LS	[Driver card model] CBL-402F2 Selects in/output signal type with SW1 (NPN/PNP)
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Standard Accessories

- Power connector(CN 1) ————— 1pce
- Control connector(CN 2) ————— 1pce
- Mounting screws and nuts Screw M4×15 — 2pcs
- Nut M4 ————— 2pcs

■ **Stable speed function**

Transfer speed is kept stable regardless of the load variation.
It helps improve transfer accuracy.

■ **Adopts 6pin D-shaped connector**

Prevent mis-wiring and easy maintenance.

■ **Smallest driver card fit in 60mm frame height**

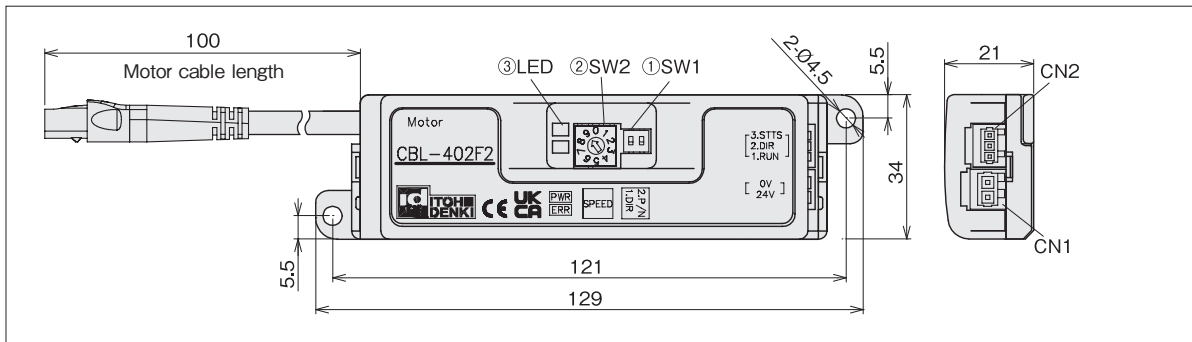
Realize a thin conveyor by smallest driver card.

■ **Speed can be set in 6 steps**

Speed variation for each driver card is adjustable with rotary switch.

■ **Error types and history can be checked**

LED can display thermal error / lock error / low voltage error, as well as error generation history.



● **SW1 (DIP switch)**

ON ON	Number	Description	ON	OFF	Factory setting
OFF OFF	1	Rotating direction	Refer to next page		OFF
1 2	2	NPN/PNP (Input and Output)	PNP	NPN	OFF

● **CN(connector)**

CN1 (Power supply)	#2	0V	
	#1	24V DC	
CN2 (Control)	No.	Function	Application
	#3	STTS	STATUS (Signal output)
	#2	DIR	Switching of the direction of rotation
#1	RUN	Start/Stop (RUN/STOP)	

● **SW2(Rotary switch)**

Internal speed setting			9	8	7	6	5	4
Specified speed	PM380LS	Nominal speed 17	17.4	14.5	11.6	8.7	7.2	5.8
		Nominal speed 60	60.0	50.0	40.0	30.0	25.0	20.0
	PM427LS	Nominal speed 17	19.5	16.3	13.0	9.8	8.1	6.5
		Nominal speed 60	67.4	56.2	44.9	33.7	28.1	22.5

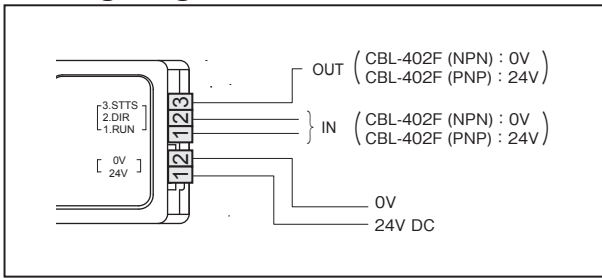
※ :Factory setting

● **LED**

	PWR (Green)	Indicates the power status
	ERR (Red)	Indicates the type of errors

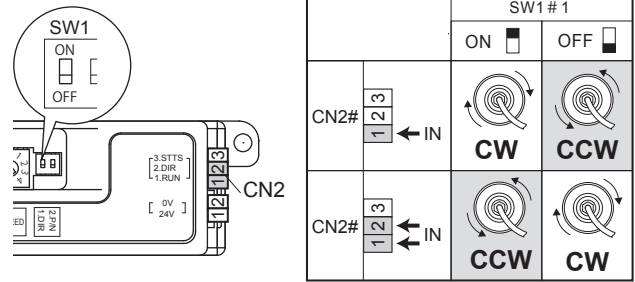
#0-3 settings with SW2 are invalidated and will be the lowest speed as in #4.

[Wiring diagram]



- *Wiring should be made while the product is not powered.
- *Switch for Run/stop or CW/CCW is an option and is not supplied.
- *Relay contact or PLC output can be used instead of the above switch.

[Direction setting]

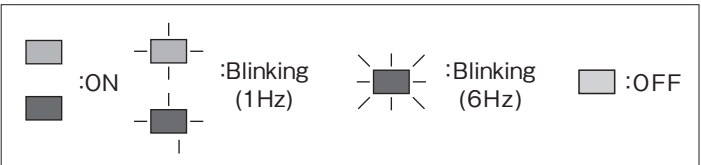


- Direction setting by SW1#1 is not available during transferring (MDR running).

[Specifications]

Model	CBL-402F2	
Power supply voltage	24V DC±10%	
Rated voltage	24V DC	
Static current	0.03A	
Starting current	2.6A±0.2A	
Peak current	20A (1msec)	
Wire diameter	Power connector (CN1)	WAG0734-102 Wire diameter : 0.8 to 2.0mm ²
	Control connector (CN2)	WAG0733-103 Wire diameter : 0.08 to 0.5mm ²
Time from RUN signal input to motor starting	20msec or less	
Protective function	Incorrect wiring protection Built-in 5A fuse	
Thermal protection	Driver card unit:95°C Motor:110°C	
Current limitation	2.6A	
Operating environment	Ambient temperature	0 to 40°C (no freezing)
	Ambient humidity	90%RH or less (no condensation)
	Atmosphere	No corrosive gas
	Vibration	0.5G or less
Installation location	Indoor	

[Error details]



PWR (Green) ERR (Red)	CN2#3 STTS signal	Type of error
■	Output	Normal operation
■	Open	Fuse blown
■	Open	Low voltage
■	Open	Motor connector unconnected Motor cable disconnected
■	Open	Driver card/MDR thermal error
■	Open	Back EMF error

Error can be checked by PWR (Green), ERR (Red) and a signal from CN2#3.