

**2.2.3 Drawer kick-out connector (modular connector)**

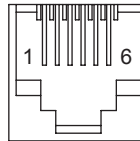
The pulse specified by **ESC p** or **DLE DC4** is output to this connector. The host computer can confirm the status of the input signal by using the **DLE EOT**, **GS a**, or **GS r** command.

1) Pin assignments: See Table 2.2.2.

**Table 2.2.2 Drawer Kick-out Connector Pin Assignments**

Pin number	Signal name	Direction
1	Frame GND	—
2	Drawer kick-out drive signal 1	Output
3	Drawer open/close signal	Input
4	+24 V	—
5	Drawer kick-out drive signal 2	Output
6	Signal GND	—

+24 V is output through pin 4 when the power is turned on. However, pin 4 must be used only for the drawer or the optional external buzzer.



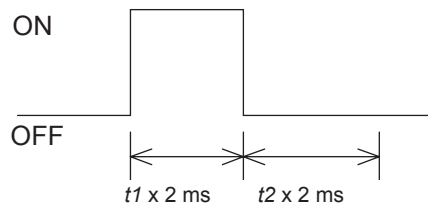
**Figure 2.2.2 Drawer Kick-out Connector**

- 2) Connector model: Printer side: MOLEX 52065-6615 or the equivalent  
User side: 6-position 6-contact (RJ12 telephone jack)
- 3) Drawer kick-out drive signal  
Output signal: Output voltage: Approximately 24 V  
Output current: 1 A or less

**CAUTION:** To avoid an overcurrent, the resistance of the drawer kick-out solenoid must be 24 Ω or more.

The ON/OFF signal of the drawer kick-out solenoid is shown in Figure 2.2.3.

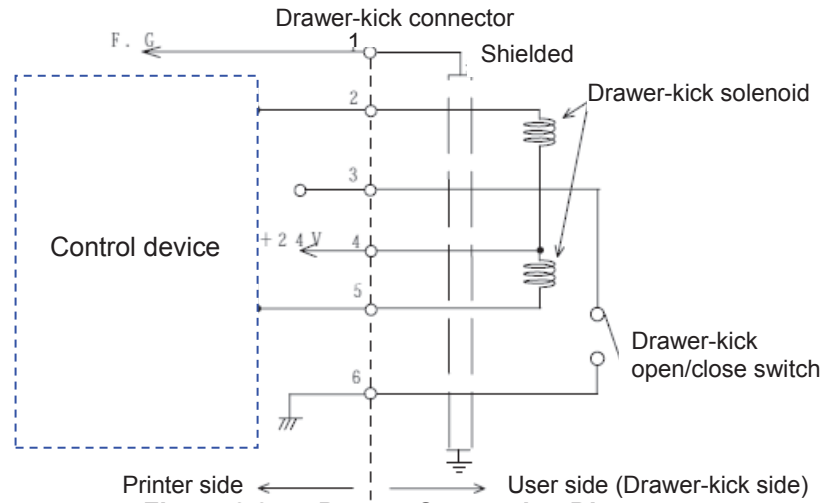
$t_1$  (ON time) and  $t_2$  (OFF time) are specified by **ESC p** or **DLE DC4**.



**Figure 2.2.3 Drawer Kick-out Drive Signal**

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4) Drawer open/close signal

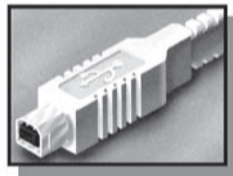


**Figure 2.2.4 Drawer Connection Diagram**

- NOTES:
1. Use a shielded cable for the drawer connector cable.
  2. Two driver transistors cannot be energized simultaneously.
  3. The drawer drive duty must be as shown below.

$$\frac{\text{ON time}}{(\text{ON time} + \text{OFF time})} \leq 0.2$$

4. Be sure to use the printer power supply (connector pin 4) for the drawer power source.
5. The resistance of the drawer kick-out solenoid must not be less than specified. Otherwise, an overcurrent could damage the solenoid.
6. Do not connect a telecommunication network to the drawer kick-out connector.
7. Do not connect the USB connector ("B" Plugs of the series B connectors) to the drawer-kick connector. Doing so may damage the printer or the host computer system.



**"B" Plugs**  
(From the Host System)

5) Connection of the optional external buzzer

The optional external buzzer can be connected to the drawer kick-out connector. When the optional external buzzer is connected, be sure to set the optional external buzzer to Enable with the customized value (memory switch). (See APPENDIX P for how to change the setting.)

When the optional external buzzer is used, a drawer cannot be used. It is prohibited that both the optional external buzzer and the drawer are connected at the same time by using a branched connector.

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