Operating Instructions

Label File Selection Box - Input/Output Box (Part No. 5948205)

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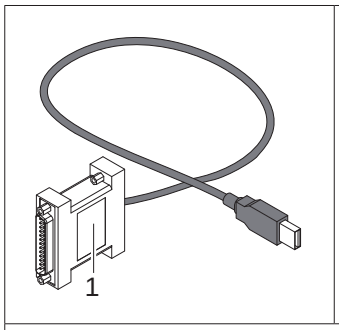
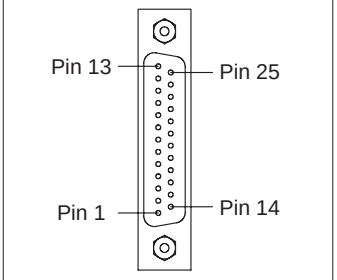
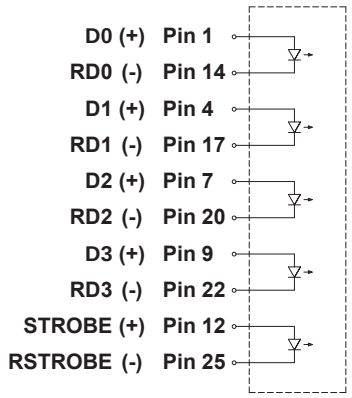
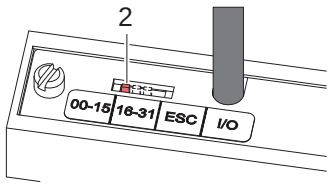






Internal circuit of the inputs



The box can be operated in two basic functions depending on the setting of the switch (2):

Setting 00-15, 16-31 or ESC	**Label file selection box**
Setting I/O:	**Input/output box**

Label File Selection Box

Function

With the label file selection box 16 different print jobs can be selected via PLC interface. The corresponding J-Script data must be filed on a memory medium in the printer.

System Requirements

Printer of the A+, MACH4, Hermes+, PX, EOS or SQUIX Series.

Pin Assignment of the 25-pin Plug

Pin	Signal	Pin	Reverse line	Direction	Function
1	D0	14	RD0	Input	Selection value 1
4	D1	17	RD1	Input	Selection value 2
7	D2	20	RD2	Input	Selection value 4
9	D3	22	RD3	Input	Selection value 8
12	STROBE	25	RSTROBE	Input	Validity signal

- Each input signal **D0**-**D3** and **STROBE** has a separate reverse line.
- The particular signal is active when between **[Signal]** and the respective **[Reverse line]** +24 V is applied with (+) at **[Signal]**.
- The circuits of the inputs cause a potential separation.

Operation

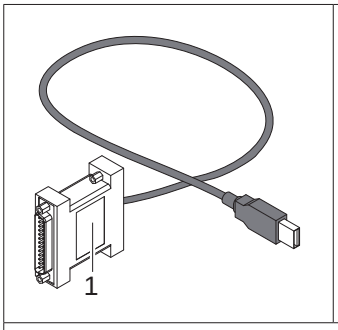
► Store up to 32 label files named E0.LBL up to E15.LBL in the path \LABELS of the memory medium.
► Insert the memory medium in the printer.
► Select setting "00-15", "16-31" or "ESC" at the switch (2).

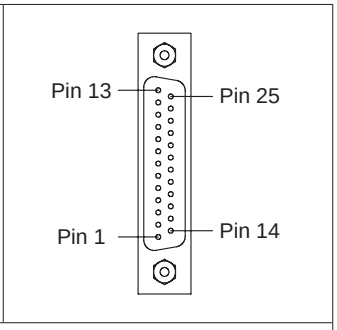
Setting	00-15	16-31	ESC
File names and contents	E0 - E15 User-defined content	E16 - E31 User-defined content	E0 - E6 pre-defined E0 ESC!ESC! Hardware reset E1 ESCc Cancel current print job E2 ESCf Label feed E3 ESCt Cancel all print jobs E4 ESCp0 Pause OFF E5 ESCp1 Pause ON E6 ESC< Backfeed behind the label sensor E7 - E15 User-defined content

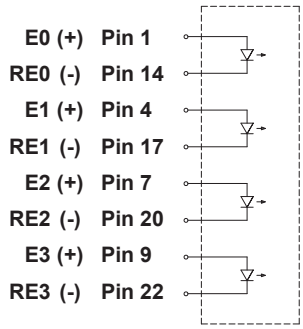
► Switch off the printer.
► Connect the box (1) to a USB master interface of the printer.
► Connect the 25-pin SUB-D plug of the box (1) to the PLC interface using a suitable cable.
► Switch on the printer.
► Select the designated file **Ex** via PLC by activating the binary-coded selection signals:

Setting "**00-15**" or "**ESC**"	**x** = D3*8 + D2*4 + D1*2 + D0	Example: With D3 and D1 the file E10.LBL is selected.
Setting "**16-31**"	**x** = 16 + D3*8 + D2*4 + D1*2 + D0	Example: With D3 and D1 the file E26.LBL is selected.

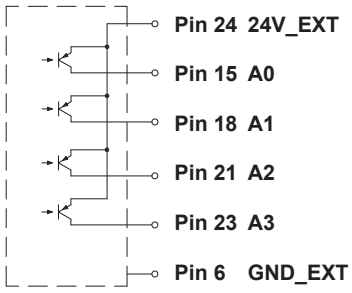
► Confirm the selection via PLC by activating the signal STROBE for at least 50 ms.



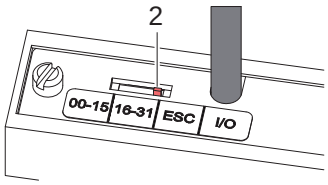




Internal circuit of the inputs



Internal circuit of the outputs



Input/Output Box

Function

The input/output box allows to realize simple PLC procedures. Using abc-programming the printer can read four inputs and set four outputs. That allows the communication with other devices. In the programming a separate bit is assigned to each input and output (▷ Programming Manual). The abc-programming must be especially designed for the particular application.

System Requirements

Printer of the A+, MACH4, Hermes+, PX, EOS or SQUIX Series.

Pin Assignment of the 25-pin Plug

Pin	Signal	Pin	Reverse line	Direction	Function
1	E0	14	RE0	Input	Input bit 0
4	E1	17	RE1	Input	Input bit 1
7	E2	20	RE2	Input	Input bit 2
9	E3	22	RE3	Input	Input bit 3
15	A0	24	24V_EXT	Output	Output bit 0
18	A1			Output	Output bit 1
21	A2			Output	Output bit 2
23	A3			Output	Output bit 3
		6	GND_EXT	External Ground	

- For the operation of the outputs 24V must be applied between Pin 24 and Pin 6.
- Each input signal **E0**-**E3** has a separate reverse line.
- The particular signal is active when between **Ex** and **REx** +24 V is applied with (+) at **Ex**.
- All output signals **A0**-**A3** have the common line **24V_EXT**.
- When an output bit is set to “high” there is a low-resistance connection between **Ax** and **24V_EXT**.
- The inputs and output circuits cause a potential separation.

EU Declaration of Conformity

▷ https://www.cab.de/media/pushfile.cfm?file=2761

Operation

► Select setting “I/O” at the switch (2).
► Switch off the printer.
► Connect the box (1) to a USB master interface of the printer.
► Connect the 25-pin SUB-D plug of the box (1) to the PLC interface using a suitable cable.
► Switch on the printer.
► Send a print job containing an abc-program to control the external device.

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