

# SECTION 7

5750

5760

5765

5775

5790

5799

digital BookMark

Digital Copier 212

(DC212)

Digital Copier 214

(DC214)

DocuColor 12

DocuColor 30

DocuColor 40

DocuColor 2045

DocuColor 2060

DocuColor Office 6

Document Centre 220

(DC220)

Document Centre 230

(DC230)

Document Centre 240

(DC240)

Document Centre 255

(DC255)

Document Centre 265

(DC265)

Document Centre 332

(DC332)

Document Centre 340

(DC340)

Document Centre 420

(DC420)

Document Centre 425

(DC425)

Document Centre 432

(DC432)

Document Centre 440

(DC440)

Document Centre 460

(DC460)

Document Centre 470

(DC470)

Document Centre 480

(DC480)

Document Centre 490

(DC490)

Document Centre Color Series 50

(DCCS50)

Document Centre System 35

(DCS35)



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## 7.0 APPLICABLE MACHINE / PRODUCT CODES

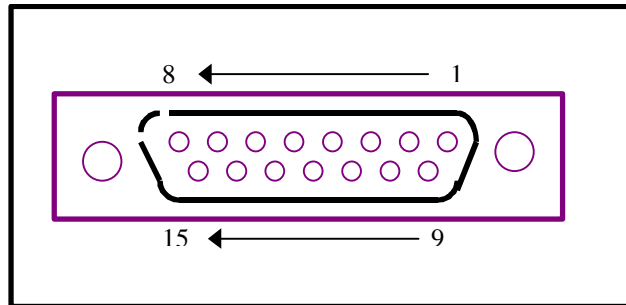
<b>Model Number</b>	<b>Code Number</b>	<b>Model Number</b>	<b>Code Number</b>
5750	F8H, F9H	DC220	C0H, C1H, W1P, W2P, H7F
5760	6EE	DC230	C1H, G7M,G8M
5765	7EE	DC240	E2C, 1UP, 6UP,52F
5775	05Y	DC255	R4F, R5F, T6C,6UP
5790	0UW, 2UW	DC265	2UP, 6UP, 8UP, E4Y, E6Y
5799	K4R, K5P		
DocuColor 12	FU2	DC332 / DC332ST	DG0 , KM9
DocuColor 30	KG0, DV3	DC340 / DC340ST	DG1 , KN1
DocuColor40	D0C, D1C		
DocuColor 2045	PM9		
DocuColor 2060	PM7	DC420	NL2, NL3
DocuColor Office 6	F8H, F9H	DC425      DC/ST	EYC, EYF
DCCS50	FU2	DC432	NG3, NM9
		DC440	NN0,NG4
DCS35	6NV		
DC212	R1U	DC460      DC/ST	NE8, NE4
DC212 Copier Printer	CF4	DC470      DC/ST	ND8, ND0
		DC480      DC/ST	MW9, MY0
DC214	F9W	DC490      DC/ST	CTD, CTF
DC214 Copier Printer	CE8		
DC214 w/ Document feeder	CF1, L7G	digital BookMark DC/ST	HYD, KLD



## 7.1 INTERFACE CHARACTERISTICS - MECHANICAL

### 7.1.0 XEROX RECEPTACLE

PART	VENDOR PART NO.	XEROX PART NO.
15 Pin 'D' miniature receptacle	AMP 205205-2	113W20321
TERMINAL (SOCKET)	1-66504-2	115P80105
SCREWLOCKS	205817-1	26P80362



### 7.1.1 MATING COMPONENTS

PART	VENDOR PART NO.	XEROX PART NO.
15 PIN 'D' miniature plug	AMP 205206-3	114P20091
TERMINAL (PIN)	1-66506-0	115P80102
SCREWS	205980-1	26P80293





## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 7.2.0 5775

**This interface is designed to be used with accounting systems only. It is not recommended for Vend Station/Debit Card Reader(s).**

#### XEROX SIGNALS AVAILABLE

##### **PIN 1            ENABLES FOREIGN INTERFACE:**

To enable the machine for access control, provide a contact closure between pins 1 & 3.

Maximum current through these lines is 5 mA.

To enable the machine pins 1 & 3 should be closed.

To disable the machine pins 1 & 3 should be open within 100 m sec. after the print count signal for the last desired copy.

##### **PIN 2            CONFIGURES FOREIGN INTERFACE:**

To indicate the presence of a foreign device, provide a connection from pin 2 to 3 (machine frame ground).

##### **PIN 3            MACHINE FRAME GROUND**

##### **PIN 7            MACHINE FRAME GROUND**

##### **PIN 8\*          COPY COUNT +**

Provides a positive (+) link to the collector of an optical coupler. This signal is machine copy count + pulse. Pulse duration 50 msec., 62 pulses per min. in simplex mode.

##### **PIN 9\*          COPY COUNT -**

Provides a return link to the emitter of an optical coupler. This signal is the return path for machine copy count pulse.

##### **PIN 12\*        MACHINE RUN +**

Provides a positive link to the collector of the optical coupler. This signal is enabled during machine run from the time "start print" is pressed until ready to copy is displayed.

##### **PIN 13\*        MACHINE RUN**

Provides a return link to the emitter of an optical coupler. This signal is the return path for machine run + signal.

5775

## **7.2 INTERFACE CHARACTERISTICS - ELECTRICAL**

**(CONTINUED - 5775)**

**PIN 14 MACHINE FRAME GROUND**

**PIN 15 24 VOLTS FOR XEROX USE ONLY**

\*ELECTRICAL REQUIREMENTS FOR OPTICAL COUPLER  
MAX COLLECTOR TO EMITTER VOLTAGE 20 VDC  
MAX COLLECTOR TO EMITTER CURRENT 148 MA  
MAX COLLECTOR TO EMITTER WATTAGE 148MW

**MESSAGE SET**

**'USE ACCESS DEVICE'**

## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 7.2.1 5750 / DocuColor 12 / Docucolor 2045 / Docucolor 2060 / Document Centre Color Series 50 / DocuColor Office 6 – FOREIGN INTERFACE FOR ACCOUNTING SYSTEMS

**This is a special interface for a 5750 using Accounting devices rather than a Vend Station/ Debit Card Reader. Definition of the pins will vary for the two kits.**

**DocuColor 12 / Document Color Series 50 – NVM Selectable for this mode.**

#### XEROX SIGNAL DEFINITIONS

##### **PIN 1 ENMACHFI**

A 'low' level signal (>0.8V) on this line enables the machine. Until enabled the machine keyboard will be inoperative with the user interface displaying the appropriate standby message.

##### **PIN 2 CONFIGFI Not Used - N/C**

##### **PIN 3 MACHINE FRAME GROUND**

##### **PINS 4&5 BLACK +/-Color**

Black and White copy only - 200 ms pulse that occurs at the same time as COPYCNTFI. All paper sizes. This signal is generated by the machine when a black and white copy is being made. It can be used by the foreign device to count Black and White copies.

##### **PINS 8&9 COPYCNTFI +/-**

Copy count signal - 200 ms in duration. Copy is counted on the MajestiK copy output switch. This signal is generated by the machine when any copy is made. It can be used by the foreign device to count total copies.

##### **PINS 10&11 11X17"/8 1/2 x 11 +/-**

11X17"/A3 copy count signal - 200 ms pulse that occurs at the same time as COPYCNTFI. Both COPYCNTFI+/- and 11X17"/ A3CNT +/- - active. Used in 3 pass color and full color only - not in B/W. This signal is generated by the machine when any copy is made. It can be used by foreign device to count 11X17"/A3 color copies.

##### **PINS 12&13 MACHRDY +/-**

Goes active when start print is activated and goes inactive when machine stops. This signal is generated by the machine to inform the foreign device that the machine is ready to make a copy.

5750  
Docu  
Color  
12  
Docu  
Color  
2045  
Docu  
Color  
2060  
Docu  
Color  
Office  
6  
Docu  
ment  
Centre  
Color  
Series  
50  
All  
with  
Acct.  
Device



## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 7.2.2 5750 / DocuColor Office 6 /DocuColor 12 / Document Centre Color Series 50- FOREIGN INTERFACE FOR VEND STATION (COIN, VEND, CARD READER)

**This is a special interface for a 5750 using a Vend Station/ Coin/Debit Card Reader rather than an Accounting System. Definition of the pins will vary for the two kits.**

**DocuColor 12 / Document Color Series 50 – NVM Selectable for this mode.**

#### XEROX SIGNAL DEFINITIONS

##### **PIN 1 ENMACHFI**

A 'low' level signal (>0.8V) on this line enables the machine. Until enabled the machine keyboard will be inoperative with the user interface displaying the appropriate standby message.

**PIN 2 CONFIGFI** Not Used - N/C

**PIN 3 MACHINE FRAME GROUND**

##### **PINS 4&5 COLOR/BLACK**

This signal is a state signal set at the time the 5750 determines whether the current job is a Black/White or Color Mode job. The signal is set HIGH when the job is a Black/White copy and set LOW when the job is a Color copy. This signal is set prior to the FEED signal generation. The machine after setting this signal waits 40 ms for a response from the external device to negate Machine Enable if prior enabled. The default state for this signal is B/W or HIGH. This signal can be used by the foreign device in a multilevel pricing structure where the cost for B/W would be different than a Color job.

Signal type: Output State  
Origin: Copier  
B/W state: HIGH  
Color state: LOW  
Default state: HIGH

**5750**  
**Docu**  
**Color**  
**Office**  
**6**  
**Docu**  
**Color**  
**12**  
**Docu**  
**ment**  
**Centr**  
**e**  
**Color**  
**Series**  
**50**  
**With**  
**Coin,**  
**Vend,**  
**Card**

## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### (CONTINUED – 5750/DocuColor Office 6/DocuColor 12 with Vend/ Coin/Card Device)

#### **PINS 8&9 COPYCNTFI +/-**

This pulse is generated synchronously with the copier paper feed pulse from any tray including the bypass tray of the machine. This signal is asserted at the time of the paper feed of the machine from any tray. This FEED signal would be active low with a duration of 200ms. This signal can be used by the foreign device to collect the funds deposited.

Signal type: Output PULSE  
Duration: 200 ms  
Origin: Copier  
Active state: LOW  
Inactive state: HIGH  
Default state: HIGH

#### **PINS 10&11 11X17"/8 1/2 x 11 +/-**

This signal is a state signal. When the paper size is 14.33" (B1 size) or less, the copier will assert this signal HIGH. When the paper size is larger than 14.33" (B1 size), the copier will assert this signal LOW. This signal will always be asserted LOW for any job from the bypass tray. This signal is set prior to the FEED signal generation. The machine after setting this signal waits 40 ms for a response from the external device to negate Machine Enable if prior enabled. The default state for this signal is HIGH. This signal is set at the same moment as BW / Color signal. This signal can be used by the foreign device in a multilevel pricing structure where the cost is greater for paper larger than 14.33".

Signal type: Output State  
Origin: Copier  
Small size state: HIGH  
Large size state: LOW  
Default state: HIGH

#### **PINS 12&13 MACHRDY +/-**

Goes active when start print is activated and goes inactive when machine stops. This signal is generated by the machine to inform the foreign device that the machine is ready to make a copy.

## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 7.2.3 5760 / 5765 / 5790 / 5799 / DocuColor 30 / DocuColor 40

**This interface is designed to be used with accounting systems only. It is not recommended for Vend Station/Debit Card Reader(s).**

#### XEROX SIGNAL DEFINITIONS

**PIN 1 ENMACHFI**

A 'low' level signal (>0.8V) on this line enables the machine. Until enabled the machine keyboard will be inoperative with the user interface displaying the appropriate standby message.

**PIN 2 CONFIGFI** Not Used - N/C

**PIN 3 MACHINE FRAME GROUND**

**PINS 4&5 BLACK +/-**

Black and White copy only - 200 ms pulse that occurs at the same time as COPYCNTFI. All paper sizes. This signal is generated by the machine when a black and white copy is being made. It can be used by the foreign device to count Black and White copies.

**PINS 8&9 COPYCNTFI +/-**

Copy count signal - 200 ms in duration. Copy is counted on the Majestik copy output switch. This signal is generated by the machine when any copy is made. It can be used by the foreign device to count total copies.

**PINS 10&11 11X17"/A3CNT+/-**

11X17"/A3 copy count signal - 200 ms in pulse that occurs at the same time as COPYCNTFI. Both COPYCNTFI+/- and 11X17"/ A3CNT +/- active. Used in 3 pass color and full color only - not in B/W. This signal is generated by the machine when any copy is made. It can be used by foreign device to count 11X17"/A3 color copies.

**PINS 12&13 MACHRDY +/-**

Goes active when start print is activated and goes inactive when machine stops. This signal is generated by the machine to inform the foreign device that the machine is ready to make a copy.

**5760  
5765  
5790  
5799  
Docu  
Color  
30  
Docu  
Color  
40**





## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 7.2.4 DCS35

#### XEROX SIGNAL DEFINITIONS

**Pin 1 MACHINE ENABLE**

A 'low' level signal (>0.8V) on this line enables the machine. Until enabled the machine keyboard will be inoperative with the user interface displaying the appropriate standby message.

**Pin 2 EXTERNAL DEVICE ATTACHED**

A 'low' signal (>0.8V) on this line indicates to the copier control software that an accessory is connected to the foreign interface output.

**Pin 3 COMMON LOW INPUTS**

This line is the common return for the diodes of the input opto-isolators. The accessory should return each input used to this point.

**Pin 4 PREMIUM TRAY LARGE/SMALL + (NVM SWITCHABLE)**

A 'low' signal (<0.4V) is produced on this line to indicate that either a larger than A4/81/2X11 or a smaller than A4/81/2X11 paper tray is selected. The signal remains low until another tray is selected. Note: the copier can be set by a service engineer to switch this line low in either case or uniquely.

**DCS  
35**

**Pin 5 PREMIUM TRAY LARGE/SMALL -**

This line is the return for the emitter of the input opto-isolators.

**Pin 6 PREMIUM REDUCE/ENLARGE + (NVM SWITCHABLE)**

A 'low' signal (<0.4V) is produced on this line to indicate that either a Reduction / Enlargement ratio other than 100% has been selected. The signal remains low until the feature is deselected.

**Pin 7 PREMIUM REDUCE/ENLARGE -**

This line is the return for the emitter of the input opto-isolators.

## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### (CONTINUED -DCS35)

**Pin 8 COPY COUNT**

A 'low' signal (<0.4V) is produced on this line each time a sheet of paper is fed. The signal remains low for 100-140ms and is synchronous with the paper feed signal. This signal is not generated if the paper feed is part of a job recovery.

**Pin 9 COPY COUNT -**

This line is the return for the emitter of the input opto-isolators.

**Pin 10 COPY EXIT**

A 'low' signal (<0.4V) is produced on this line each time a fused image is produced on a sheet of paper. The signal remains low for 100-140ms. This signal is not generated if the paper fed is part of a job recovery.

**PIN 11 COPY EXIT -**

Provides a return link to the emitter of an optical coupler. This signal is the return path for the COPY EXIT+ signal.

**PIN 12 NOT READY+**

Provides a positive link to the collector of the optical coupler. To be turned ON at power on. To stay OFF during machine run state and Customer emulation mode in Diagnostics.

**PIN 13 NOT READY -**

Provides a return link to the emitter of an optical coupler. This signal is the return path for the NOT READY+ signal.

**PIN 14 MACHINE FRAME GROUND**

**PIN 15 24 VOLTS (FOR XEROX USE ONLY)**

\* Electrical Requirements for Optical Coupler

Max Collector to Emitter Voltage 15 Vdc

Max Collector to Emitter Current 8 mA

Max Collector to Emitter Wattage 100 mW

**MESSAGE SET**

"Please insert Access Device"

## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 7.2.5 DC220 / DC230 / DC332 / DC340 / DC420 / DC425 / DC432 / DC440 / digital BookMark

#### XEROX SIGNAL DEFINITIONS

##### **Pin 1 MACHINE ENABLE**

A 'low' level signal (>0.8V) on this line enables the machine. Until enabled the machine keyboard will be inoperative with the user interface displaying the appropriate standby message.

##### **Pin 3 COMMON LOW INPUTS**

This line is the common return for the diodes of the input opto-isolators. The accessory should return each input used to this point.

##### **Pin 4 PREMIUM TRAY LARGE/SMALL + (NVM SWITCHABLE)**

A 'low' signal (<0.4V) is produced on this line to indicate that either a larger than A4/81/2X11 or a smaller than A4/81/2X11 paper tray is selected. The signal remains low until another tray is selected. Note: the copier can be set by a service engineer to switch this line low in either case or uniquely.

##### **Pin 5 PREMIUM TRAY -**

This line is the return for the emitter of the input opto-isolators.

##### **Pin 6 PREMIUM REDUCE/ENLARGE + (NVM SWITCHABLE)**

A 'low' signal (<0.4V) is produced on this line to indicate that either a Reduction/Enlargement ratio other than 100% has been selected. The signal remains low until the feature is deselected.

##### **Pin 7 PREMIUM REDUCE/ENLARGE -**

This line is the return for the emitter of the input opto-isolators.

##### **Pin 8 COPY COUNT +**

A 'low' signal (<0.4V) is produced on this line each time a sheet of paper is fed. The signal remains low for 100-140ms and is synchronous with the paper feed signal. This signal is not generated if the paper feed is part of a job recovery.

##### **Pin 9 COPY COUNT -**

This line is the return for the emitter of the input opto-isolators.

DC220  
DC230  
DC332  
DC420  
DC425  
DC440  
DC432  
digital  
BookMark

## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

**(CONTINUED - DC220/ DC230 / DC332 / DC340 /DC420 /DC425/  
DC432 / DC440 / digital BookMark**

**Pin 10 COPY EXIT +**

A 'low' signal (<0.4V) is produced on this line each time a fused image is produced on a sheet of paper. The signal remains low for 100-140ms. This signal is not generated if the paper fed is part of a job recovery.

**PIN 11 COPY EXIT -**

Provides a return link to the emitter of an optical coupler. This signal is the return path for the COPY EXIT+ signal.

**PIN 12 NOT READY+**

Provides a positive link to the collector of the optical coupler. To be turned ON at power on. To stay OFF during machine run state and Customer emulation mode in Diagnostics.

**PIN 13 NOT READY -**

Provides a return link to the emitter of an optical coupler. This signal is the return path for the NOT READY+ signal.

**PIN 14 MACHINE FRAME GROUND**

**MESSAGE SET**

"Please insert Access Device"

## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 1. 7.2.6 DC240 / DC255 / DC265\* / DC460\*\* / DC470\*\* / DC480\*\* / DC490\*\*

#### XEROX SIGNAL DEFINITIONS

**PIN 1 ENABLES FOREIGN INTERFACE**

To enable the machine provide contact closure (or zero ohms) between pins 1 and 3.

**PIN 2 FOREIGN INTERFACE PRESENT**

To indicate a device is present provide contact closure (or zero ohms) between pins 2 and 3.

**PIN 3 MACHINE FRAME GROUND**

**PIN 8 COPYCOUNT +**

Copy count signal - 100 ms in duration.  
Provides a positive link to collector-side of opto-coupler.

**PIN 9 COPYCOUNT -**

Provides a return link to emitter-side of opto-coupler.

**Pin14 MACHINE GROUND**

**PIN 15 5Vdc FOR XEROX SERVICE TECHNICIANS ONLY.**

**THIRD PARTY VENDORS OR END-USER MUST NOT CONNECT TO THIS PIN AND SHOULD NOT USE THIS PIN AS A POWER SOURCE.**

**\* NOTE: INTERFACE CAN BE ENABLED BY CUSTOMER. THE PROCEDURE IS LOCATED ON PAGE 7-24 OF THE DOCUMENT CENTRE 240/255/265 REFERENCE GUIDE.**

**\*\*CUSTOMER WILL NEED THE FOREIGN INTERFACE BOARD—DC70FI(PRODUCT CODE) TO USE THIRD PARTY DEVICES.**

**DC240  
DC255  
DC265  
DC460  
DC470  
DC480  
DC490**



## 7.2 INTERFACE CHARACTERISTICS - ELECTRICAL

### 7.2.1 DC212 / DC214

#### XEROX SIGNAL DEFINITIONS

##### **PIN 1            ENABLES FOREIGN INTERFACE:**

To enable the machine for access control, provide a contact closure between pins 1 & 3.

Maximum current through these lines is 5 mA.

To enable the machine pins 1 & 3 should be closed.

To disable the machine pins 1 & 3 should be open within 100 m sec. after the print count signal for the last desired copy.

##### **PIN 3            MACHINE FRAME GROUND**

##### **PIN 8\*           COPY COUNT +**

Provides a positive (+) link to the collector of an optical isolator. This signal is machine copy initiation count + pulse. The optical isolator conducts for a duration 100 msec., 135 pulses per min. in simplex mode or duplex mode.

##### **PIN 9\*           COPY COUNT -**

Provides a return link to the emitter of an optical isolator. This signal is the return path for machine copy initiation count pulse.

**DC212**

**DC214**





## 7.3 INDEX OF SCHEMATICS

### SCHEMATICS for MACHINE ENABLE AND BASIC COPY COUNT

ATTACHMENT 1	5775 / DCS35
ATTACHMENT 2	5750 / 5760 / 5765 / 5790 / 5799 / DC212 / DC214 / DC220 / DC230 / DC240 / DC255 /DC265 / DC332 / DC340 / DC420 / DC425 / DC432 / DC440 /digital BookMark DC460 / DC470 / DC480 /DC490 DocuColor 12 / DocuColor 30 / DocuColor40 / DocuColor 2045 / DocuColor 2060 / DocuColor Office 6 / Document Centre Color Series 50

### SCHEMATICS for OPTIONAL OUTPUT SIGNALS

ATTACHMENT 3	5750 / 5760 / 5765 / 5790 / 5799 / DocuColor 12 / DocuColor 30 / DocuColor40 / DocuColor 2045 / DocuColor 2060 / DocuColor Office 6 / Document Centre Color Series 50
ATTACHMENT 4	5775
ATTACHMENT 5	DC220 / DC230 / DC332 / DC340 / DC420 / DC432 / DC440 / digital BookMark / DCS35

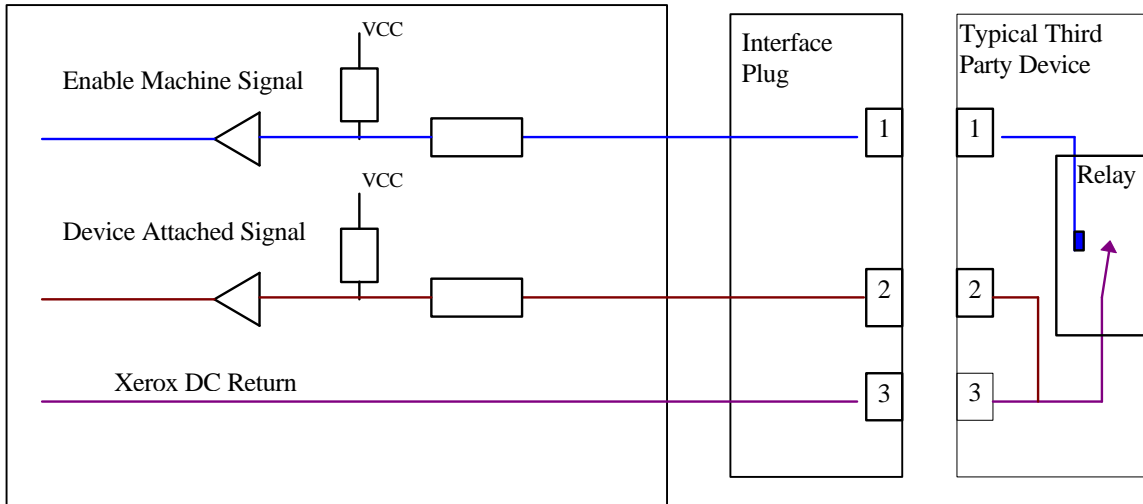
NOTE: Since the equipment in this specification utilizes high speed integrated circuits in the control circuitry, attachment of unknown devices onto the control lines may cause abnormal machine operation due to the injection of voltage transients into the lines by static discharge or other causes. Precautions should be taken by the non-Xerox accessory manufacturers to prevent such voltage transients from being generated and introduced into the control lines.



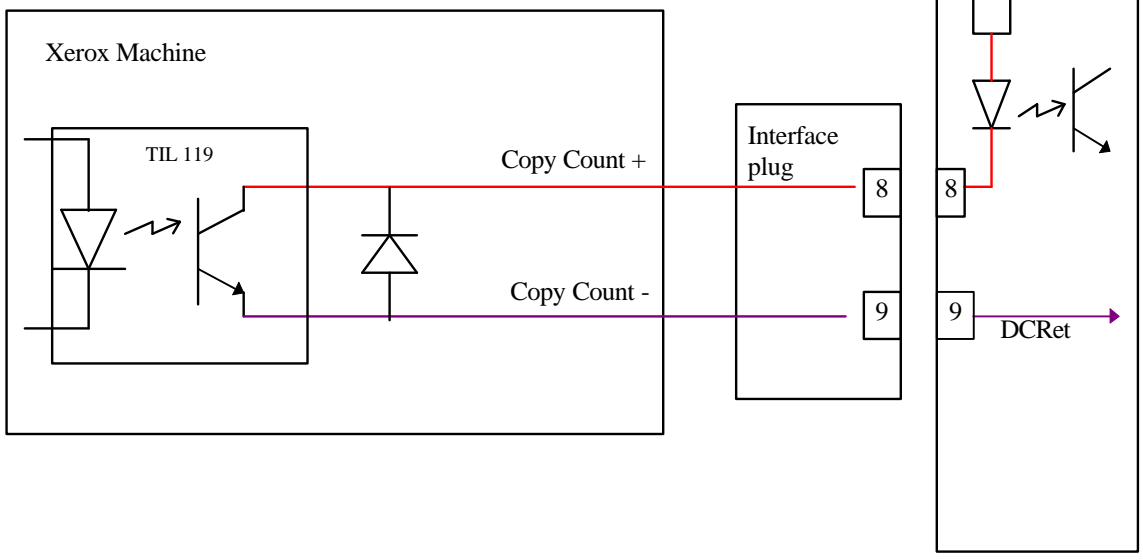
## SECTION 7 ATTACHMENT 1 FOREIGN INTERFACE CIRCUIT

### Machine Enable and Basic Copy Count

#### Third Party Control Signals



#### Machine to Third Party Count Information Signal



**5775**  
**DCS35**

#### Signal Levels

##### INPUT

$V_{IF} \text{ Max} = 25\text{V Continuous}$   
 $V_{IR} \text{ Max} = 75\text{V Continuous}$   
 $I_{IL} \text{ Max} = 6\text{mA at } 0.8\text{V}$

##### OUTPUT

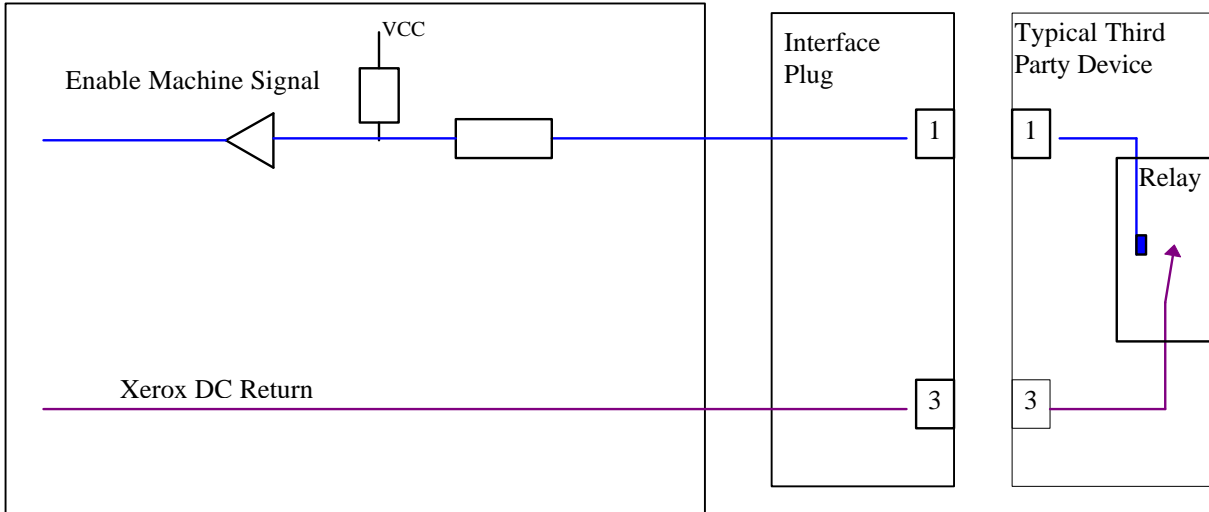
$V_{CE} \text{ Max} = 50\text{V}$   
 $V_{CE} \text{ Sat Max} = 0.4 \text{ V at } 2.4 \text{ mA}$   
 $I_{CE} \text{ Max} = 25 \text{ mA}$



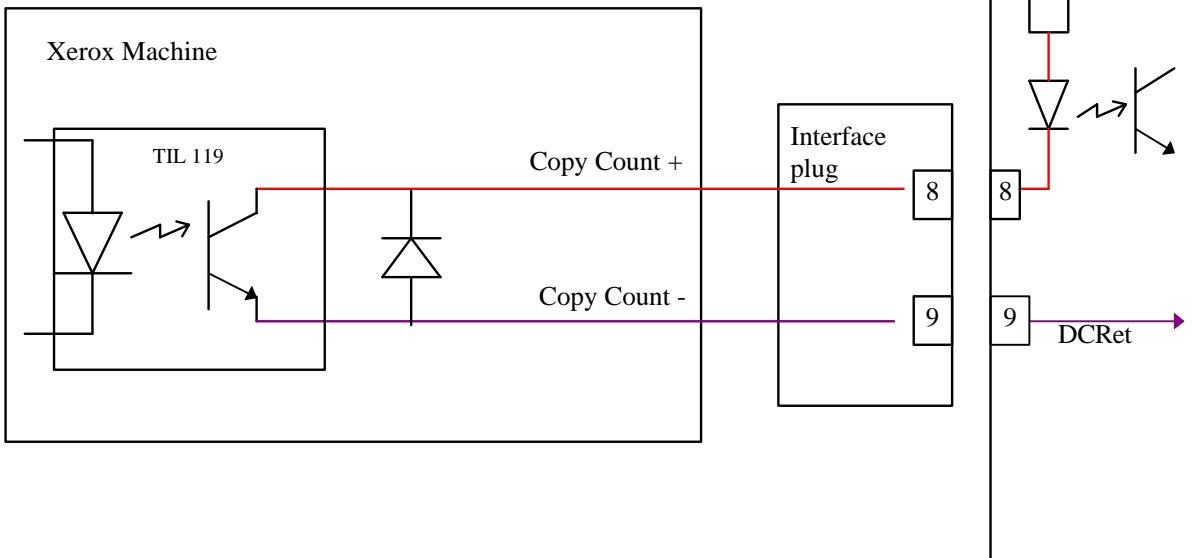
## SECTION 7 ATTACHMENT 2 FOREIGN INTERFACE CIRCUIT

Machine Enable and Basic Copy Count

### Third Party Control Signals



### Machine to Third Party Count Information Signal



### Signal Levels

#### INPUT

$V_{IF}$  Max = 25V Continuous  
 $V_{IR}$  Max = 75V Continuous  
 $I_{IL}$  Max = 6mA at 0.8V

#### OUTPUT

$V_{CE}$  Max = 50V  
 $V_{CE}$  Sat Max = 0.4 V at 2.4 mA  
 $I_{CE}$  Max = 25 mA \*

**\* $I_{CE}$  Max = 6 mA on DC265 Family**

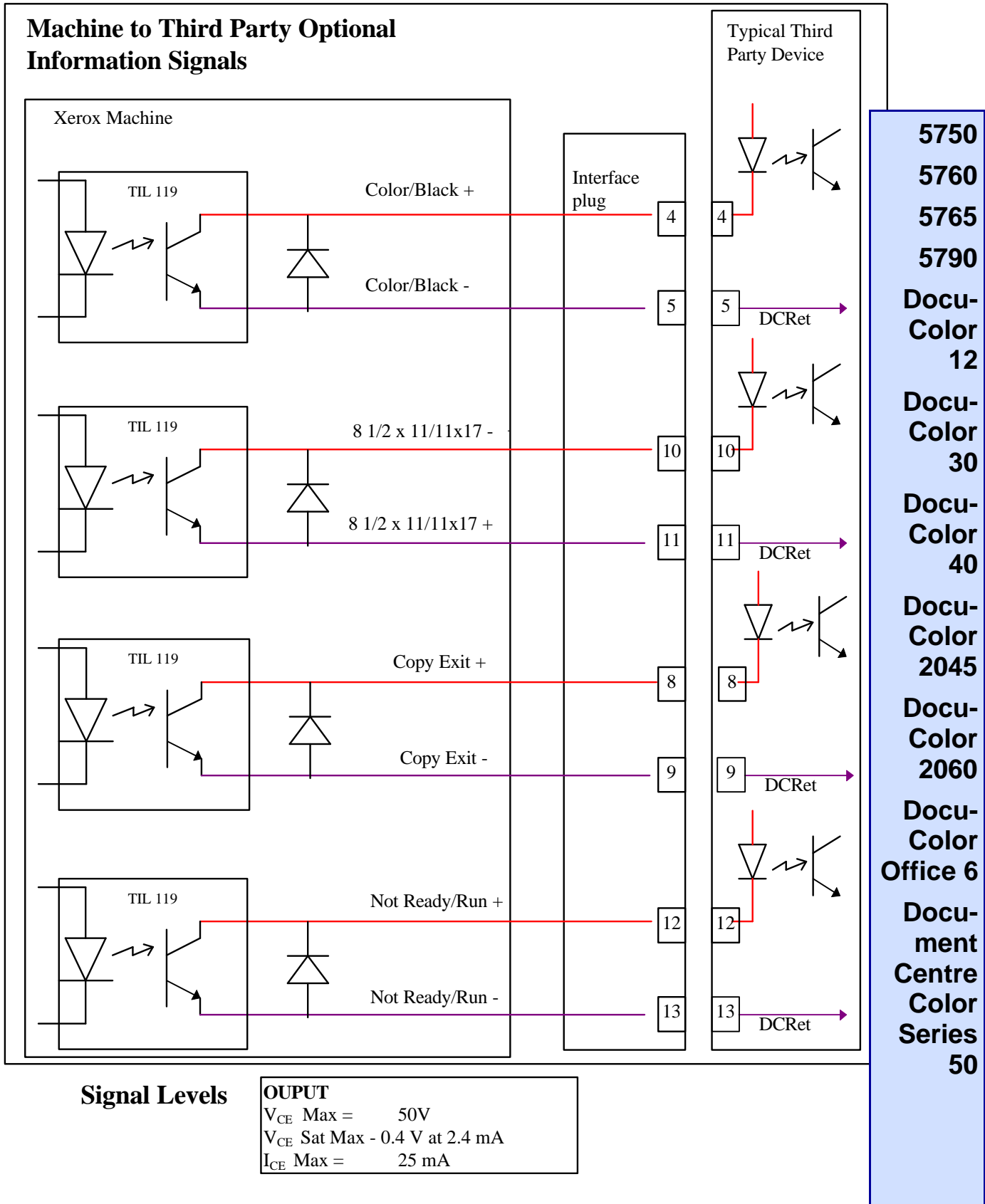
5750  
 5760  
 5765  
 5790  
 5799  
 DocuColor 12  
 DocuColor 30  
 DocuColor 40  
 DocuColor 2045  
 DocuColor 2060  
 DocuColor Office 6  
 Document Centre Color Series 50  
 DC212  
 DC214  
 DC220  
 DC230  
 DC240  
 DC255  
 DC265  
 DC332  
 DC340  
 DC420  
 DC425  
 DC432  
 DC440  
 digital BookMark  
 DC460  
 DC470  
 DC480  
 DC490



## SECTION 7 ATTACHMENT 3 FOREIGN INTERFACE CIRCUIT

### Optional Outputs

#### Machine to Third Party Optional Information Signals



#### Signal Levels

<b>OUPUT</b>	
$V_{CE}$ Max =	50V
$V_{CE}$ Sat Max =	0.4 V at 2.4 mA
$I_{CE}$ Max =	25 mA

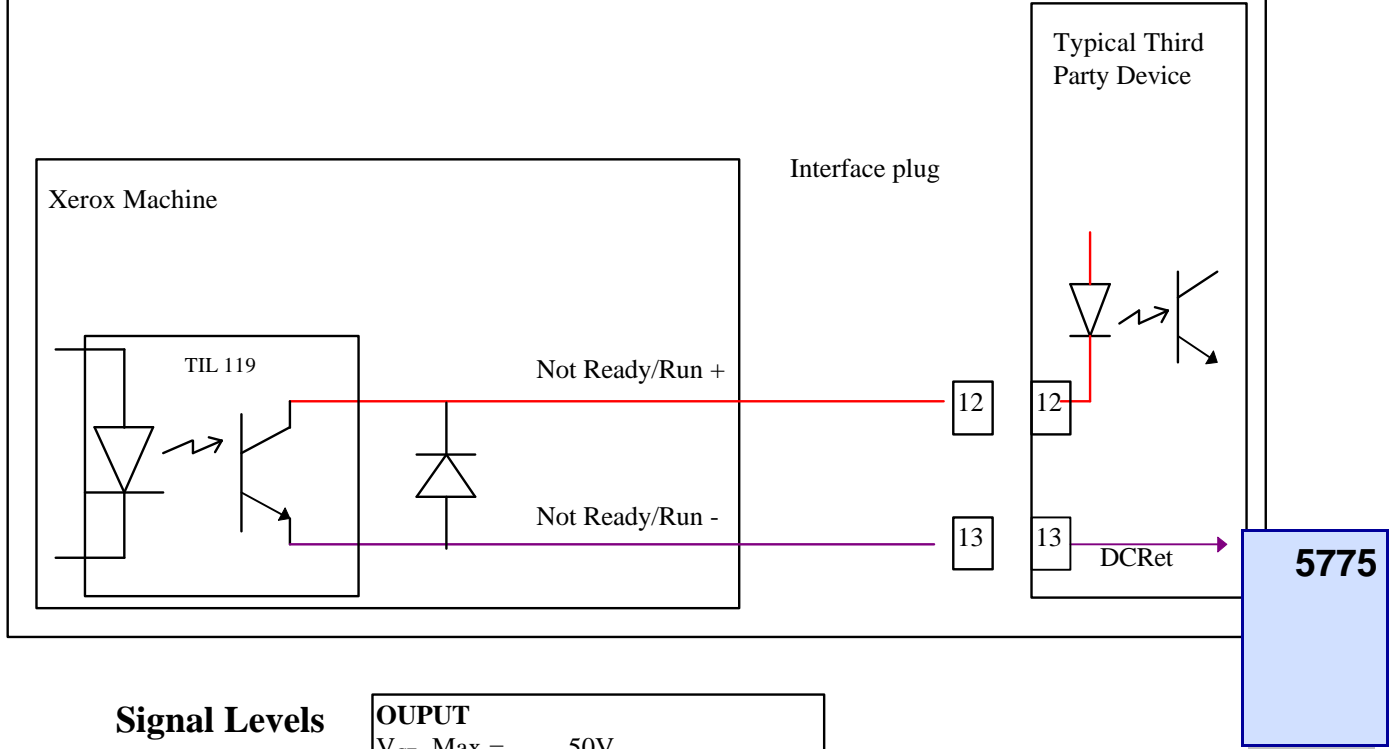




## SECTION 7 ATTACHMENT 4 FOREIGN INTERFACE CIRCUIT

### Optional Outputs

### Machine to Third Party Optional Information Signals



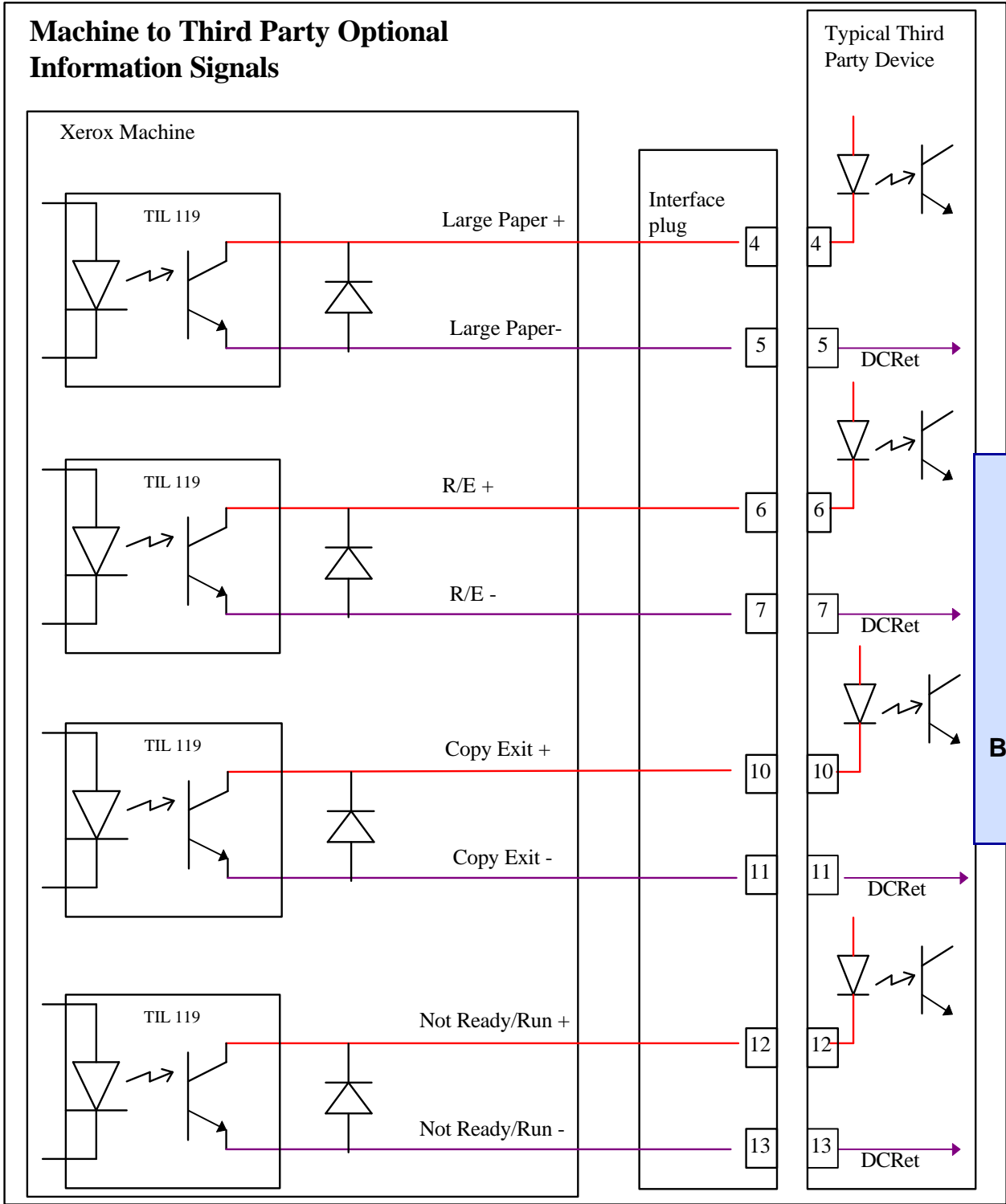
### Signal Levels

OUTPUT	
$V_{CE}$ Max =	50V
$V_{CE}$ Sat Max =	0.4 V at 2.4 mA
$I_{CE}$ Max =	25 mA



**SECTION 7 ATTACHMENT 5 FOREIGN INTERFACE CIRCUIT**  
Optional Outputs

**Machine to Third Party Optional Information Signals**



**Signal Levels**

<b>OUTPUT</b>	
$V_{CE}$ Max =	50V
$V_{CE}$ Sat Max =	0.4 V at 2.4 mA
$I_{CE}$ Max =	25 mA

