SECTION 7 - I/O SIGNAL WIRING

The Delta S driver offers a wide variety of input and output hardware standard, including 8 optical isolated inputs, 8 optically isolated outputs, 2 10-bit Analog inputs (14-bit optional), auxiliary encoder pulse input, and pulse output. These features give the Delta S Driver the flexibility to meet almost any application requirement for I/0.

The Delta S driver has an I/O expansion option that offers an additional 8 optically isolated inputs and 8 optically isolated outputs.

7.1 DELTA S DRIVER WITH STANDARD I/O INTERFACING TO A DINT-300

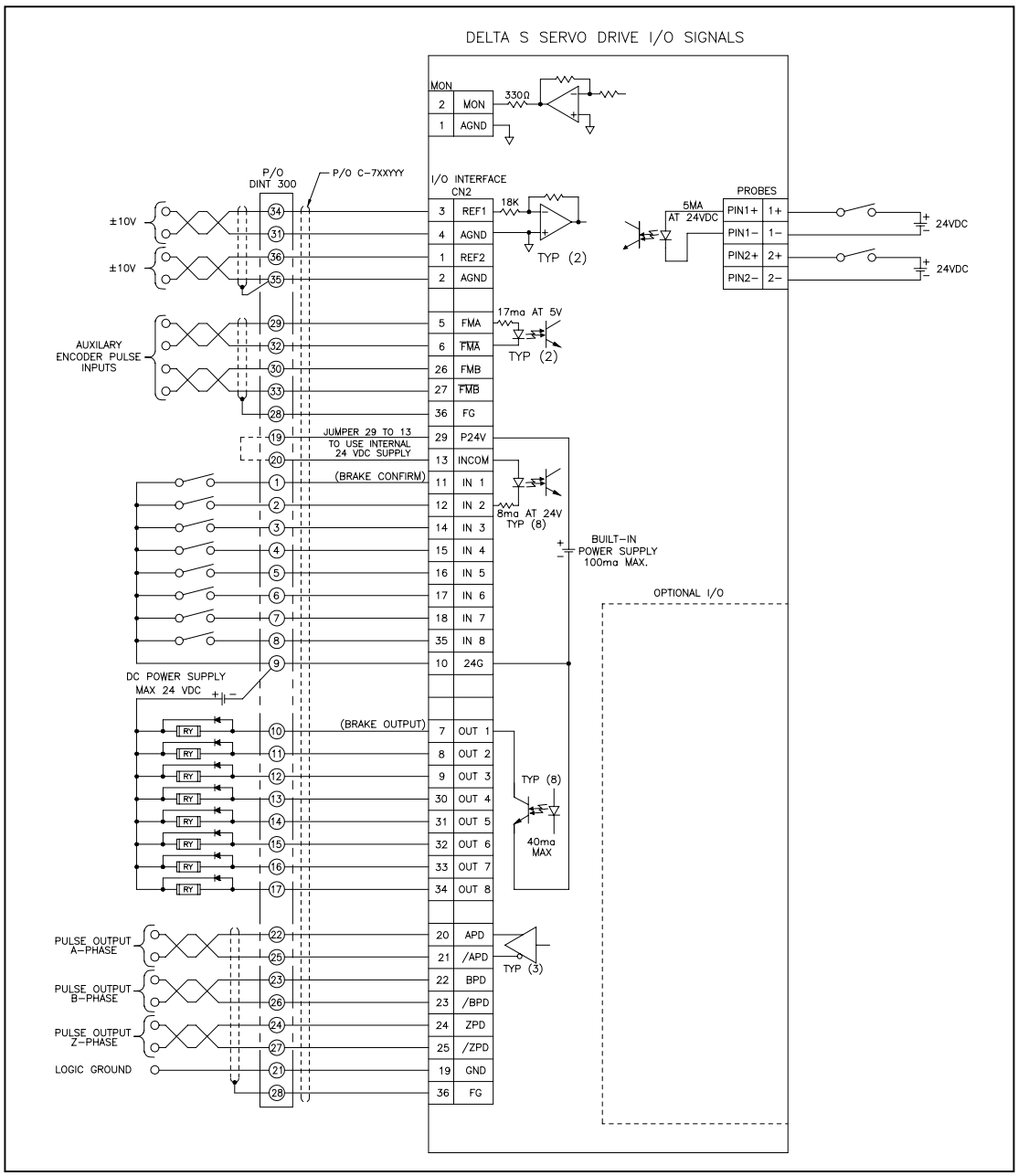

Figure 7.1 - I/O Connections To a DINT-300

7.1.1 Pin Description

Drive

REF1 - REF2	: ±10VDC Analog Inputs
AGND	: Analog Input Ground
FMA/FMB	: Auxiliary Encoder Pulse Input
APD/BPD/ZPD	: Pulse Output
FG	: Pulse I/0 Shield
IN 1 - IN 8	: 24VDC Optically Isolated Inputs, high side common
P24V	: Built-in +24VDC Supply
INCOM	: +V IN (24 VDC) for IN 1 - IN 8
24G	: 24VDC Ground for IN 1 - IN 8 and OUT 1 - OUT 8
OUT 1 - OUT 8	: 24VDC Optically Isolated Outputs, low side common
PIN1 - PIN2	: Optically Isolated High Speed Probe Inputs

7.2 DELTA S DRIVER INTERFACING TO A DINT-300S

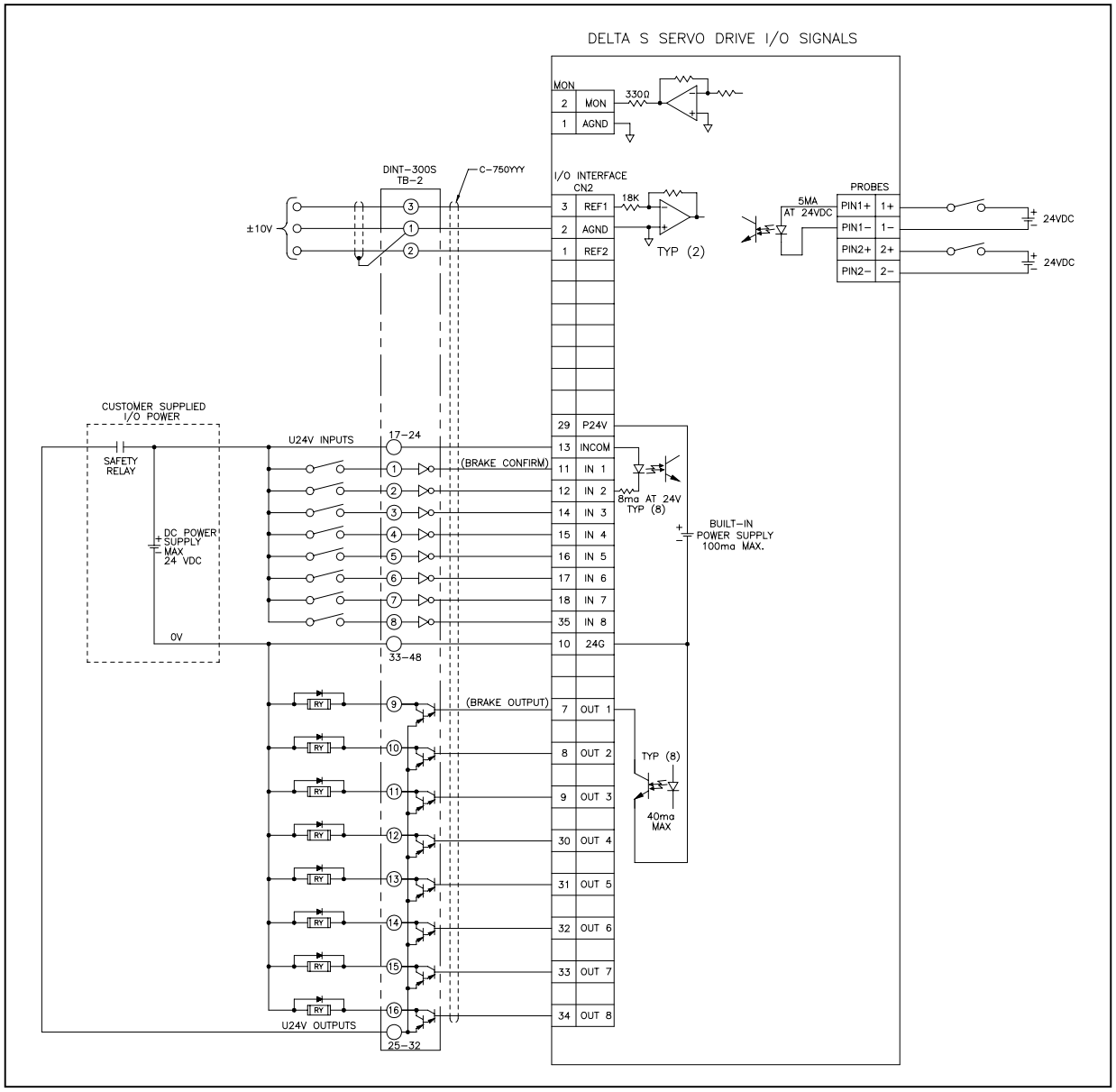

Figure 7.2 - I/O Connections To a DINT-300S

7.2.1 Pin Description

Drive

REF1 - REF2	: ±10VDC Analog Inputs
AGND	: Analog Input Ground
IN 1 - IN 8	: 24VDC Optically Isolated Inputs, high side common
P24V	: Built-in +24VDC Supply
INCOM	: +V IN (24 VDC) for IN 1 - IN 8
24G	: 24VDC Ground for IN 1 - IN 8 and OUT 1 - OUT 8
OUT 1 - OUT 8	: 24VDC Optically Isolated Outputs, low side common
PIN1 - PIN2	: Optically Isolated High Speed Probe Inputs

7.3 DELTA S DRIVER INTERFACING TO A DINT-300K

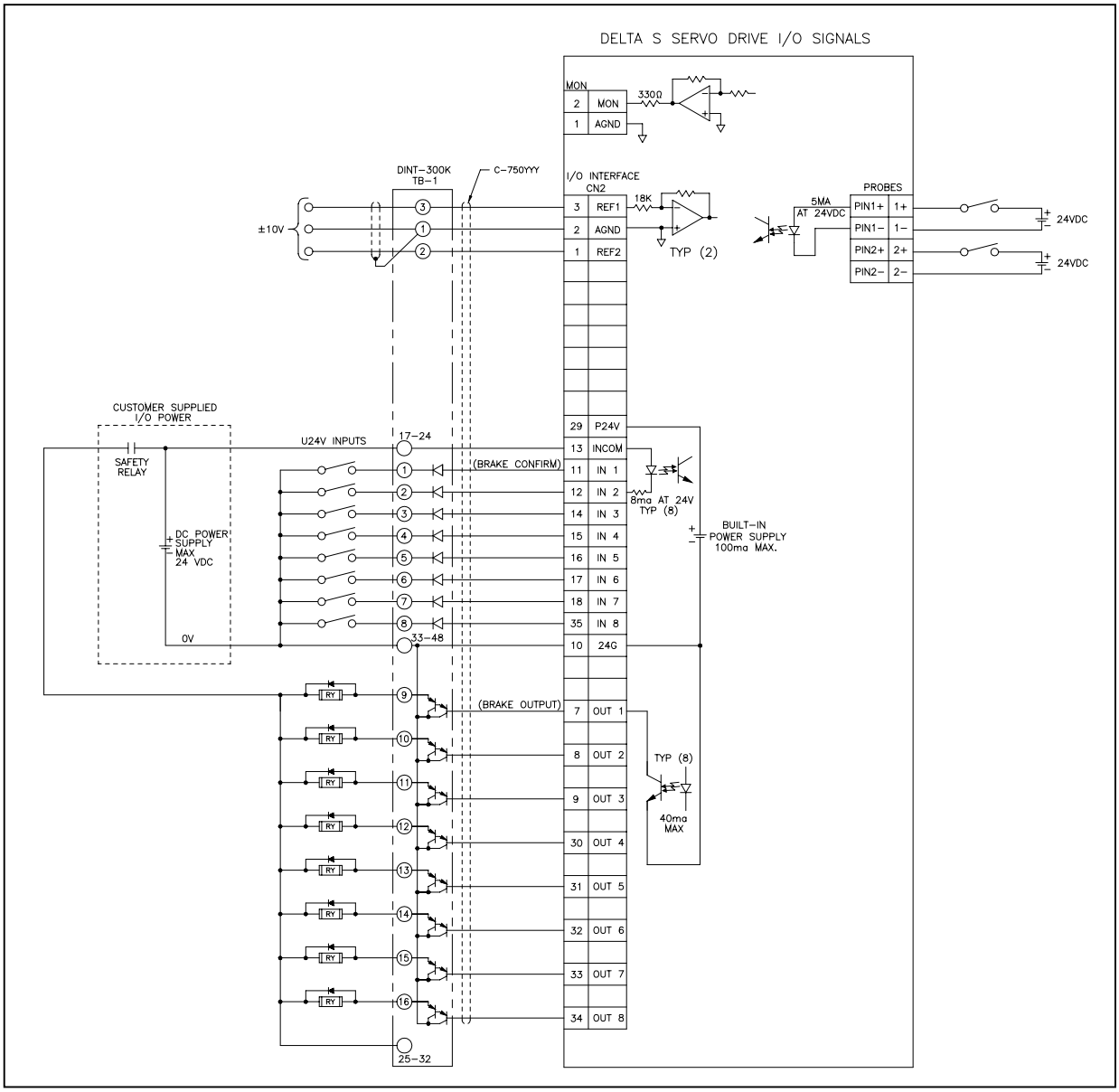

Figure 7.3 - I/O Connections To a DINT-300K

7.3.1 Pin Description

Drive

REF1 - REF2	: ±10VDC Analog Inputs
AGND	: Analog Input Ground
IN 1 - IN 8	: 24VDC Optically Isolated Inputs, high side common
P24V	: Built-in +24VDC Supply
INCOM	: +V IN (24 VDC) for IN 1 - IN 8
24G	: 24VDC Ground for IN 1 - IN 8 and OUT 1 - OUT 8
OUT 1 - OUT 8	: 24VDC Optically Isolated Outputs, low side common
PIN1 - PIN2	: Optically Isolated High Speed Probe Inputs

7.4 DELTA S OPTIONAL I/O BOARD J (SOURCING)

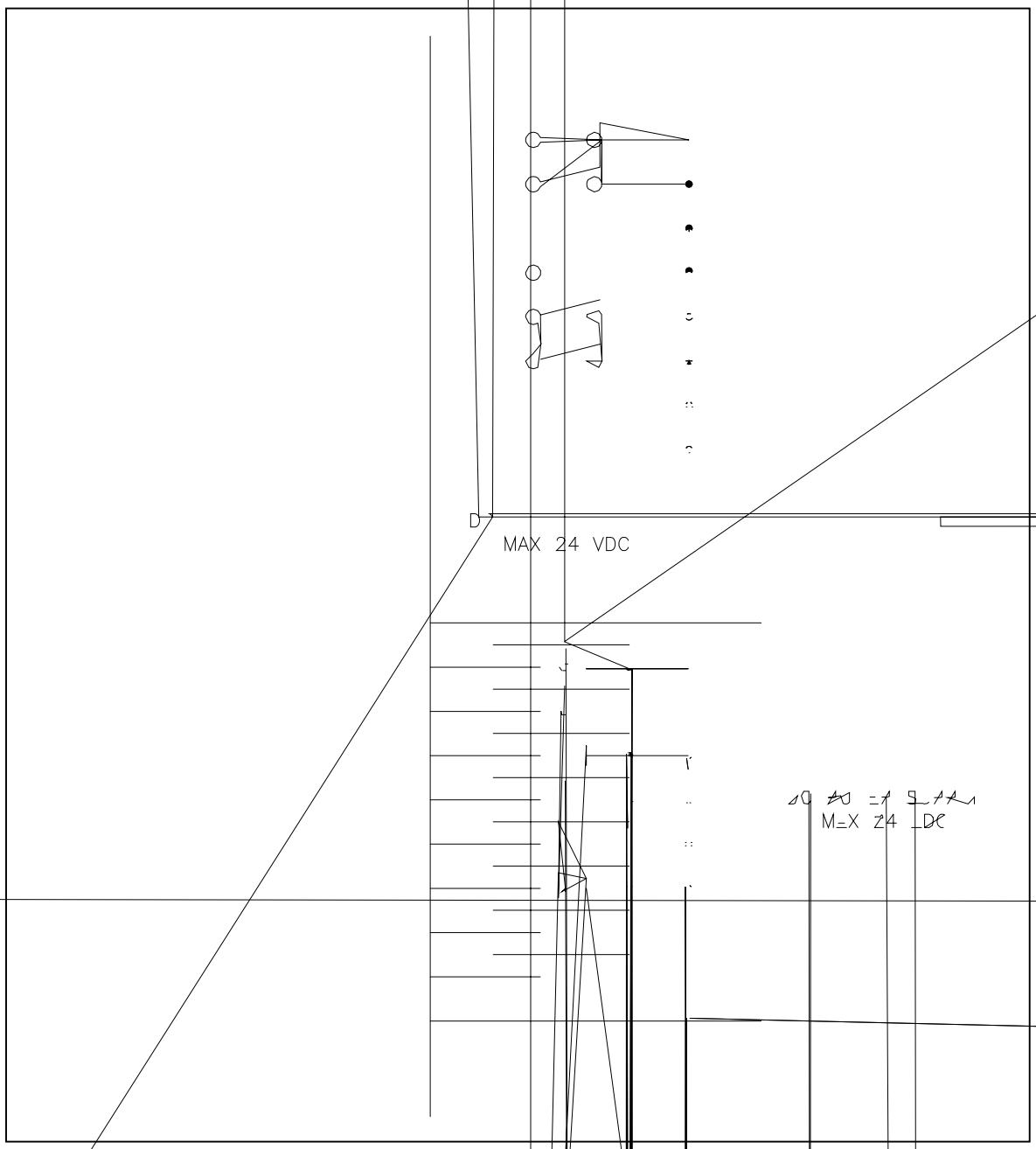

Figure 7.4- I/O Connections For Optional J (Sourcing) Board

7.4.10 "J" OPTION SOURCING I/O

IN 9- IN160 : 24VDC Optically Isolated Inputs, low side common

24G0 : 24VDC Ground for IN 9- IN160and OUT 9- OUT 160

OUT 9- OUT 160 : 24VDC Optically Isolated Outputs, high side common

+24V0 : +V IN(24 VDC) for IN 9- IN1600

7.5 DELTA S OPTIONAL I/O BOARD K (SINKING)

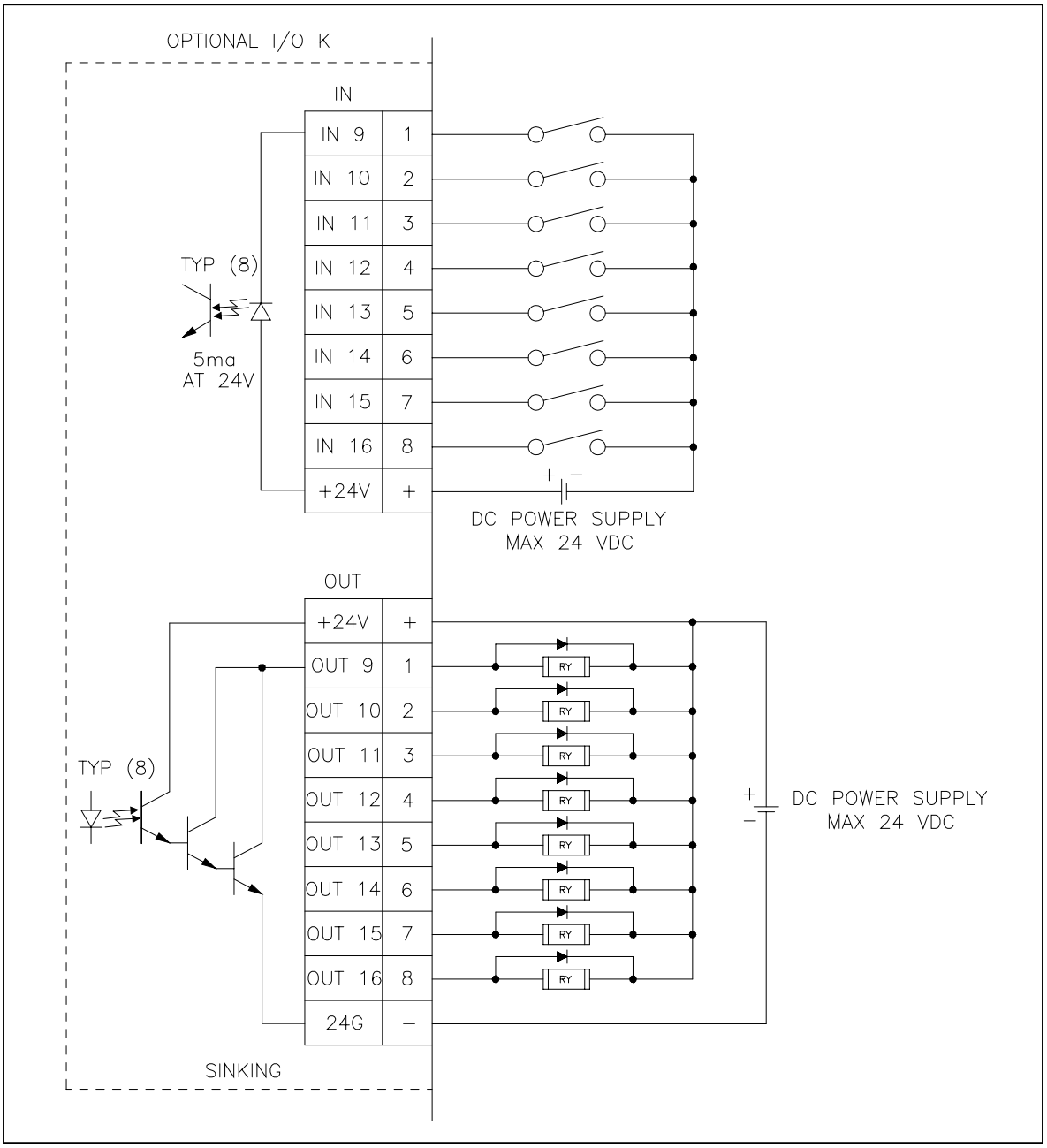

Figure 7.5 - I/O Connections For Optional K (Sinking) Board

7.5.1 "K" OPTION SINKING I/O

IN 9 - IN 16 : 24VDC Optically Isolated Inputs, high side common

+24V : +V IN (24 VDC) for IN 9 - IN 16 and OUT 9 - OUT 16

OUT 9 - OUT 16 : 24VDC Optically Isolated Outputs, low side common

24G : 24VDC Ground for OUT 9 - OUT 16