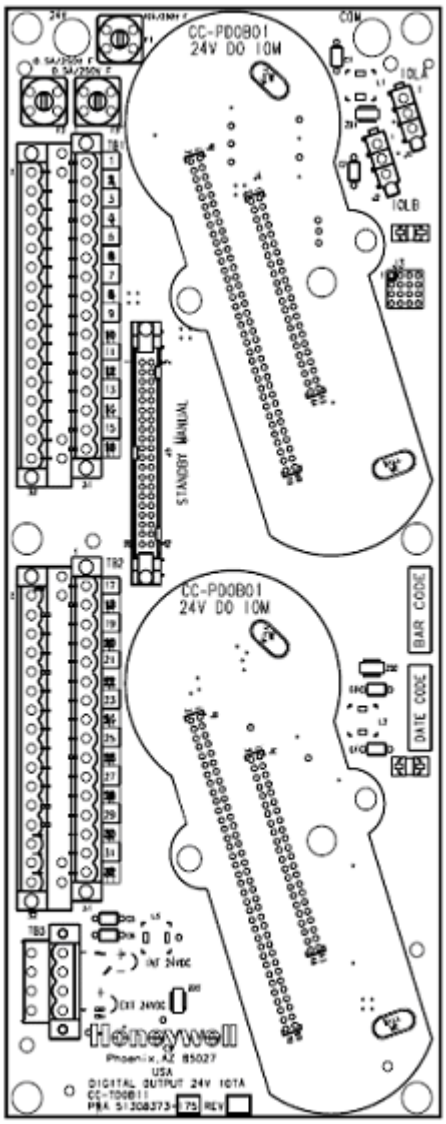
IOM block type	IOM model number	IOTA model number	IOTA description [7]	IOTA supported FTAs or ancillary cards
DI-24	Cx-PDIL01	Cx-TDIL01	DI-24V, non-redundant	None
		Cx-TDIL11	DI-24V, redundant	None
		Cx-GDIL11	DI-24VDC, GI-IS, redundant	MTL4516 MTL4517
		Cx-GDIL21	DI-24VDC, GI-IS, non-redundant	MTL4510
		Cx-GDIL01	DI-24VDC, GI-IS, redundant (for expander)	MTL4511
		Cx-SDXX01	GI-IS expander	MTL4511
	Cx-PDIL51	Cx-TDIL51	DI-24V, non-redundant	None
		Cx-TDIL61	DI-24V, redundant	None
DI_SOE	Cx-PSOE01 (note 4)	Cx-TDIL01	DI-24V, non-redundant	None
DO-24B	Cx-PDOB01	Cx-TDOB01	DO-24V, bussed, non-redundant	None
		Cx-TDOB11	DO-24V, bussed, redundant	None
		Cx-TDOR01	DO- High Voltage Relay, non-redundant	Cx-SD0R01[2] (note 2)
		Cx-TDOR11	DO- High Voltage Relay, redundant	Cx-SD0R01[2] (note 2)
		Cx-GDOL01	DO-24VDC, GI-IS, redundant (for expander)	MTL4521
		Cx-SDXX01	GI-IS expander	MTL4521
	Cx-PDOD51	Cx-TDOD51	DO-24V, bussed, non-redundant	None
		Cx-TDOD61	DO-24V, bussed, redundant	None
SVPM	CC-PSV201	CC-TSV211	Servo Valve Positioner IOTA, Redundant, Coated	None
SPM	CC-PSP401	CC-TSP411	Speed Protection IOTA, Redundant, Coated	None
PI	CC-PPIX01	CC-TPIX11	Pulse Input w/ Fast Cutout, Redundant	None
UIO	CC-PUIO01	CC-TUIO01	UIO, Non-Redundant	None
		CC-TUIO11	UIO, Redundant	
UIO-2	CC-PUIO31	CC-TUIO31	Universal IO-2, non-redundant, coated	None
		CC-TUIO41	Universal IO-2, redundant, coated	
DI-24	DC-PDIL51	DC-TDIL01	DI 24V IOTA (Non-Redundant)	None
		DC-	DI 24V IOTA (Redundant)	

Figure 5.45 Series C 24V Digital Output 12 inch, redundant IOTA



5.13 Digital Output 24V IOTA Models Cx-TDOD51, Cx-TDOD61

CAUTION

When wiring the Digital Output 24V ensure that the **external power is not reversed** or the IOM will be damaged.

The Series C Digital Output 24V IOTA board is represented by the following information and graphics.

To access the parts information for the:

- module
- IOTA
- terminal plug-in assembly, and
- fuses

associated with this board and module, refer to Digital Output 24V in the Recommended Spare Parts section.

- Field wiring and module protection - Digital Output 24V (Cx-TDOD51, Cx-TDOD61)
- IOTA board and connections - Digital Output 24V (Cx-TDOD51, Cx-TDOD61)

5.13.1 Field wiring and module protection - Digital Output 24V (Cx-TDOD51, Cx-TDOD61)

The Digital Output 24Volt Module provides a unique and highly functional output power protection method. When a short occurs in the field, the following occurs.

- The output circuits sense the over-current condition and shut down the output.
- The shut down of the point places the mode of the point into Manual.
- An Over-current Soft Failure is generated.

This failure is maintained until the short circuit condition is repaired and the point is again supplying the proper current.

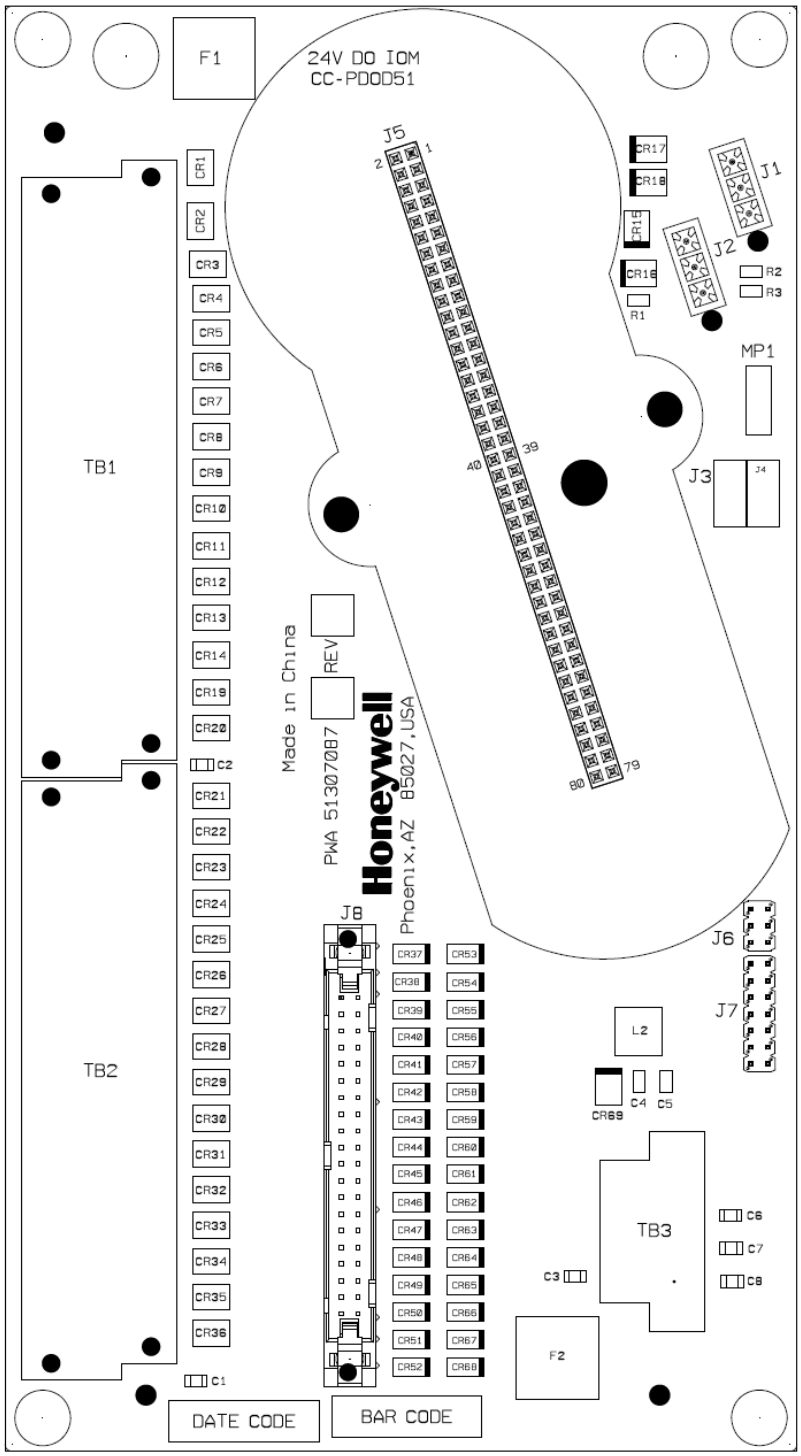
Only one channel is affected at a time. If multiple channels are affected, they are individually shut down. Any channels that do not have a short circuit condition are unaffected.

- Each channel in a DO module can handle a maximum load of 100mA.

5.13.2 IOTA board and connections - Digital Output 24V (Cx-TDOD51, Cx-TDOD61)

Series C 24V Digital Output 9 inch, non-redundant IOTA is displayed.

Figure 5.46 Series C 24V Digital Output 9 inch, non-redundant IOTA



To wire your module to the Series C 24V Digital Output IOTA board with terminal blocks 1 (TB1) and 2 (TB2), use the following table.

Table 5.35 24V DO 9 inch, non-redundant - terminal block 1

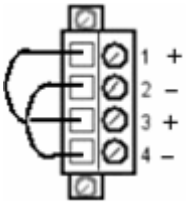
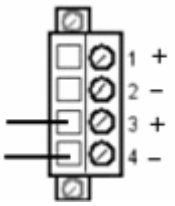
Terminal block 1		
>Channel	Return screw	Power screw
Channel 1	2	1
Channel 2	4	3
Channel 3	6	5
Channel 4	8	7
Channel 5	10	9
Channel 6	12	11
Channel 7	14	13
Channel 8	16	15
Channel 9	18	17
Channel 10	20	19
Channel 11	22	21
Channel 12	24	23
Channel 13	26	25
Channel 14	28	27
Channel 15	30	29
Channel 16	32	31

Table 5.36 24V DO 9 inch, non-redundant - terminal block 2

Terminal block 2		
Channel	Return screw	Power screw
Channel 17	2	1
Channel 18	4	3
Channel 19	6	5
Channel 20	8	7
Channel 21	10	9
Channel 22	12	11
Channel 23	14	13
Channel 24	16	15
Channel 25	18	17
Channel 26	20	19
Channel 27	22	21
Channel 28	24	23
Channel 29	26	25
Channel 30	28	27
Channel 31	29	28
Channel 32	32	31

Table 5.37 24V DO 9 inch, non-redundant - terminal block 3

Terminal block 3	
Internal	Used with Honeywell's provided 24v power supply

Terminal block 3	
Screw 1 - internal 24V	
Screw 2 - internal return	
Screw 3 - external 24V	
Screw 4 - external return	
External	Used with customer's provided 24v power supply
Screw 1 - internal 24V	
Screw 2 - internal return	
Screw 3 - external 24V	
Screw 4 - external return	

CAUTION

When wiring the Digital Output 24V ensure that the **external power is not reversed** or the IOM will be damaged.

Series C 24V Digital Output 9 inch, non-redundant IOTA and field wiring connection is displayed.

Part name		Part number	Description
DI-24V Non-Redundant. IOTA		CC- TDIL0 51308371-175	24V Digital Input, non-redundant, coated
		Cx-TDIL51 51306969-175	24V Digital Input, non-redundant, coated
DI-24V Redundant. IOTA		CC- TDIL11 51308373-175	24V Digital Input, redundant, coated
		Cx-TDIL61 51306967-175	24V Digital Input, redundant, coated
Terminal plug-in assembly			
16-terminal plug-in assembly		51506273-216	2 per non-redundant IOTA 2 per redundant IOTA
4-terminal plug-in assembly		51506269-204	1 per non-redundant IOTA 1 per redundant IOTA
Fuses			
Description	*Part number*	*Quantity*	*Reference designator* / *Function*
Fuse 0.5A Fast acting 5x20mm	51190582-150	3 per non-red. IOTA	F1: Fuse for field power if system power is connected through TB3, in series with F3 F2: Top IOM kernel F3: Fuse for field power if external power is connected through TB3
		4 per red. IOTA	F1: Fuse for field power if system power is connected through TB3, in series with F4 F2: Top IOM kernel F3: Bottom IOM kernel F4: Fuse for field power if external power is connected through TB3
DIGITAL OUTPUT 24V			
Series C DO IOM		CC--PDOB01	Series C Digital Output Module
		CC-PDOD51	Series C Digital Output Module
IOTA			
24V DO Non-Redundant IOTA		CC--TDOB01 51308371-175	24V Digital Output, bussed, non-redundant
		Cx-TDOD51 51306975-175	24V Digital Output, bussed, non-redundant
24V DO Redundant IOTA		CC--TDOB11 51308373-175	24V Digital Output, bussed, redundant, coated
		Cx-TDOD61 51306973-175	24V Digital Output, bussed, redundant, coated
Terminal plug-in assemblies			
16-terminal plug-in assembly		51506273-216	2 per non-redundant IOTA 2 per redundant IOTA