FIRE

# **4100U Fire Indicator Panel** Australian Wiring Diagrams



Australian Wiring Diagrams

LT0432 Iss 1.04

**5**.Simplex

#### General

Each of these diagrams shows the wiring for a particular module or card or base which can be used with the AS4428.1 version of the Simplex 4100U Fire Alarm system.

#### **Organisation**

Each diagram has a 3 digit sheet number from the drawing series 1976-181. This sheet numbering is divided into ranges, reflecting the type of device or module, as follows:

Sheet Number	Type of Devices Covered
100-199	Detectors & Bases
200-299	Zone Modules & Cards providing detection circuits
300-399	Input devices
400-499	Output devices or mixed inputs/outputs
500-599	Fault isolators
600-699	Communications – networks, printers, etc.
700-799	Power Supply details

The sheet index on the next page shows the current issue of each diagram. The index also refers to some diagrams which have not been released yet.

#### **Abbreviations**

IDNet Individual Device Network – latest version of addressable device communication.

MAPNET Multi-Application Peripheral Network – earlier version of

addressable device communication.

IAM Individually Addressable Module.

ZAM Zone Addressable Module – interfaces to conventional

detectors.

RUI Remote Unit Interface – connects Master panel and Slave

transponders.

RTU Remote Transponder Unit – slave panel

NAC Notification Appliance Circuit – drives DC-powered sounders

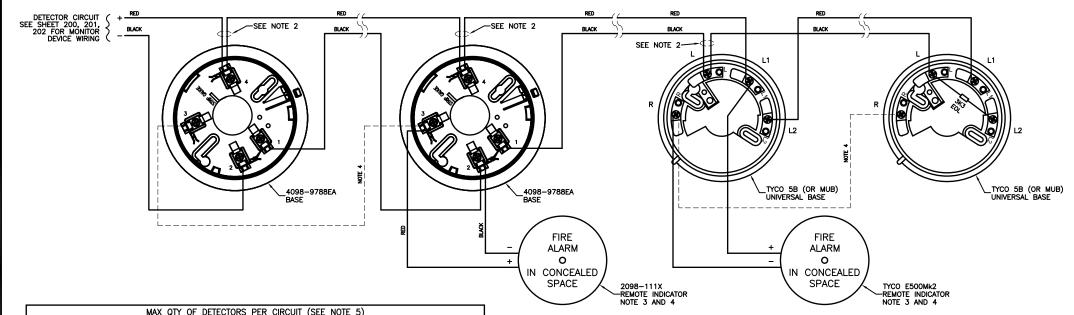
and visual warning devices.

### Amendment Log

6 Oct. 2006	Issue 1.00	Original
20 Nov. 2006	Issue 1.01	Updated sheets 102, 203, 500
21 June 2007	Issue 1.02	Added sheet 205
10 July 2009	Issue 1.03	Updated sheet 413
13 Oct. 2009	Issue 1.04	Added sheets 701, 703, 704

#### **Drawing Index**

Sheet Number	Title	Rev.
Bases		
101	2W Detector Bases - Conventional Detectors	Α
102	TrueAlarm Addressable Detector Bases	В
Zone Mod	ules	
200	8 Zone Module Motherboard (4100-5004)	Α
201	MapNet Monitor ZAM (2190-9156)	Α
202	IDNet Zone Addressable Module (ZAM) (4090-9101)	Α
203	IDNet Module (4100-3101)	В
204	VESDA High Level Interface	Nyp
205	4090-9101 ZAM & "Ex" Detectors	Α
Inputs		
300	Addressable Call Point (4099-9032)	nyp
301	Supervised IAM (4090-9001, 4090-9051)	Α
302	4-20mA Analog Monitor ZAM (4090-9050)	nyp
Outputs	IDM ( 0 D : ( 1/0 M )   ( (4000 0400)	
400	IDNet 6 Point I/O Module (4090-9120)	A
401	MapNet2 Relay Module with Supervised Input (2190-9173)	Α
402	IDNet Relay IAMs with Inputs (4090-9118, 4090-9119)	В
403	MapNet2 Signal ZAM (2190-9162) and	Α
404	Control ZAM (2190-9164) IDNet Relay ZAM (4090-9002)	Α
40 <del>4</del> 405		A
405 406	8 Point Auxiliary Relay Card (4100-3003)	A
406	6 Point Signal Card (4100-4321) SPS NAC Outputs (4100-9848AU)	A
407	SPS NAC connection to T-GEN50 tone generator	nyp
409	SPS NAC connection to 1-3ENSO tone generator	А
410	SPS NAC connection to Mini-Gen tone generator	A
411	SPS Brigade Relays (4100-6033)	A
412	IDNet Relay IAMs as Fan Controls	В
413	24 Point I/O Card (002-124+4100-0302)	В
414	8 Point Relay Card (4100-3206)	nyp
415	4 Point Relay Card (4100-3200)	
416	Signal IAM (4090-9007)	nyp nyp
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501	IDNet Addressable Power Isolator (4090-9117AU)	Α
Communi		
600	Transponder Interface Card (4100-0620)	В
601	Network Interface Card (Wired Media) (4100-6014)	Α
602	Network Interface Card (Fibreoptic) (4100-6014)	nyp
603	Fibreoptic Modem - RUI (4100-6063/6064)	nyp
604	Fibreoptic Modem - Network (4100-6063/6064)	nyp
605 606	Dual RS232 Card (4100-6038) LCD Annunciator (4604-9201)	nyp A
Power	,	-
700	SPS Power Outputs	В
701	1948 2A PSU Outputs (ME0417)	A
703	Remote DC Powered RTU – Loop Power Feed	Α
704	Remote DC Powered RTU – Linear Power Feed	Α
-	yet published	-



MAX QTY OF DETECTORS PER CIRCUIT (SEE NOTE 5)						
DETECTOR MODEL	DETECTOR TYPE	4100-5001/2/4 8 ZONE MODULE	2190-9156 MONITOR ZAM	4090-9101 MONITOR ZAM		
4098-9601EA	PHOTOELECTRIC	30	20	20		
4098-9603EA	IONISATION	30	20	20		
4098-9618EA	HEAT TYPE A	30	20	20		
4098-9619EA	HEAT TYPE B	30	20	20		
4098-9621EA	HEAT TYPE D	30	20	20		
USED IN 4098-9788EA BASES						

	MAX QTY OF D	ETECTORS PER CIRCUIT	(SEE NOTE 5)	
DETECTOR MODEL	DETECTOR TYPE	4100-5001/2/4 8 ZONE MODULE	2190-9156 MONITOR ZAM	4090-9101 MONITOR ZAM
614CH	CO AND HEAT	37	25	25
6141	IONISATION	40	29	29
614P	PHOTOELECTRIC	28	19	19
614T	HEAT	30	20	20
	USI	ED IN 5B OR MUB BAS	SES	

- 1. IF USED, REMOTE INDICATORS ARE POLARIZED; OBSERVE COLOUR-CODED WIRING.
- 2. BREAK WIRES BEFORE CONNECTING TO TERMINAL 4 OR L TO MAINTAIN SUPERVISION. DO NOT LOOP WIRE UNDERNEATH TERMINAL 4 OR L.
- 3. 2098-111X REMOTE INDICATOR CANNOT BE USED WITH TYCO BASES, AND E500 REMOTE INDICATOR CANNOT BE USED WITH 4098-9788EA BASES.
- 4. MULTIPLE BASES OF THE SAME TYPE CAN DRIVE A COMMON REMOTE INDICATOR BY LINKING BASES AS SHOWN. HOWEVER, DO NOT INTERCONNECT REMOTE INDICATOR OUTPUTS OF 4098-9788EA BASES WITH 5B (OR MUB) BASES, OR THE DETECTOR CIRCUIT WILL BE SHORT CIRCUITED.
- 5. WHEN USING MULTIPLE DETECTOR TYPES ON ONE CIRCUIT, THE SUM OF EACH TYPE'S QUANTITY AS A PROPORTION OF ITS MAXIMUM MUST NOT EXCEED 1, E.G. 22 X 614I AND 16 X 4098-9603EA ARE NOT PERMITTED ON 4100-5001 AS 22/40 + 16/30 IS GREATER THAN 1.

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3rd ANGLE PROJECTION

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
A	ORIGINAL	-	KJS				21-7-06

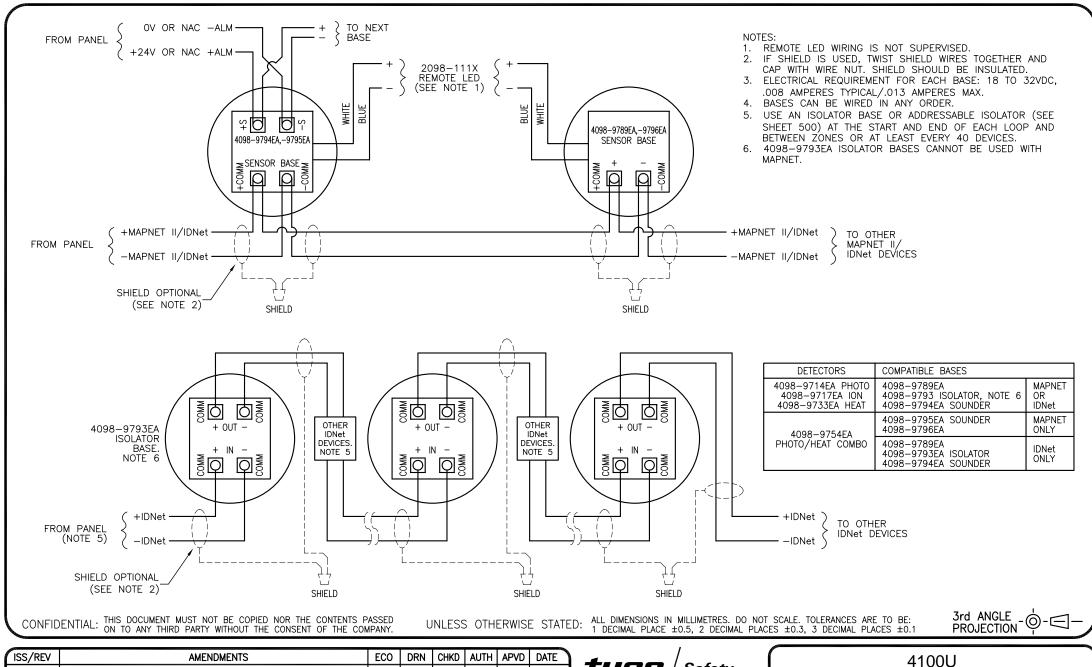
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4100U
2 WIRE DETECTOR BASES - CONVENTIONAL DETECTORS
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 101 of N

A3 ISS/REV A PART No:



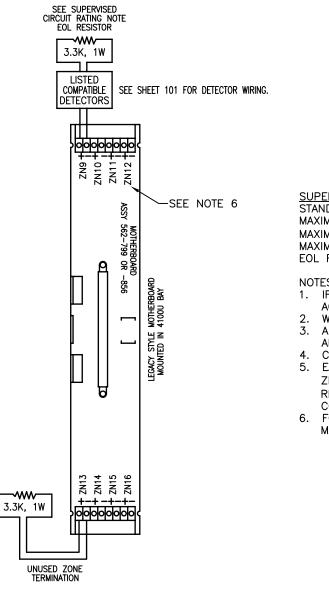
ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	_	KJS				21-7-06
В	NOTE 5 — ISOLATOR AT START AND END ADDED.	3809	KJS	PA	LSC	DP	20-11-06

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# TRUEALARM ADDRESSABLE DETECTOR BASES WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 102 of N

A3 SS/REV B PART No:



SUPERVISED CIRCUIT RATING

STANDBY VOLTAGE RANGE AT DETECTOR...16.5 - 32VDC MAXIMUM DETECTOR STANDBY LOAD CURRENT...3.0mA MAXIMUM ALARM (SHORT) CIRCUIT CURRENT...60mA MAXIMUM LINE RESISTANCE....50 OHMS EOL RESISTANCE.....3300 OHMS

#### NOTES:

- 1. IF ZONE IS NOT USED, CONNECT A 3.3K, 1W RESISTOR ACROSS ZONE TERMINALS AS SHOWN ON ZONE 13.
- 2. WIRE MUST BE 0.75 SQ.mm OR GREATER.
- 3. ALL DEVICE WIRING TO BE TERMINATED TO THE APPROPRIATE ZONE AS SHOWN ON ZONE 9.
- 4. CONDUCTORS MUST TEST FREE OF ALL GROUNDS.
- 5. EACH ZONE IS MARKED WITH ITS CIRCUIT NUMBER, ZN1,ZN2,ZN3,...ZN128. REFER TO "4100U PROGRAMMER REPORT" WHICH REFERENCES THE EXACT WIRES CONNECTED, PER JOB.
- 6. FOR ZONES THAT CONNECT TO CLEAN CONTACTS ONLY, MAX LINE RESISTANCE IS 800 OHMS.

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ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
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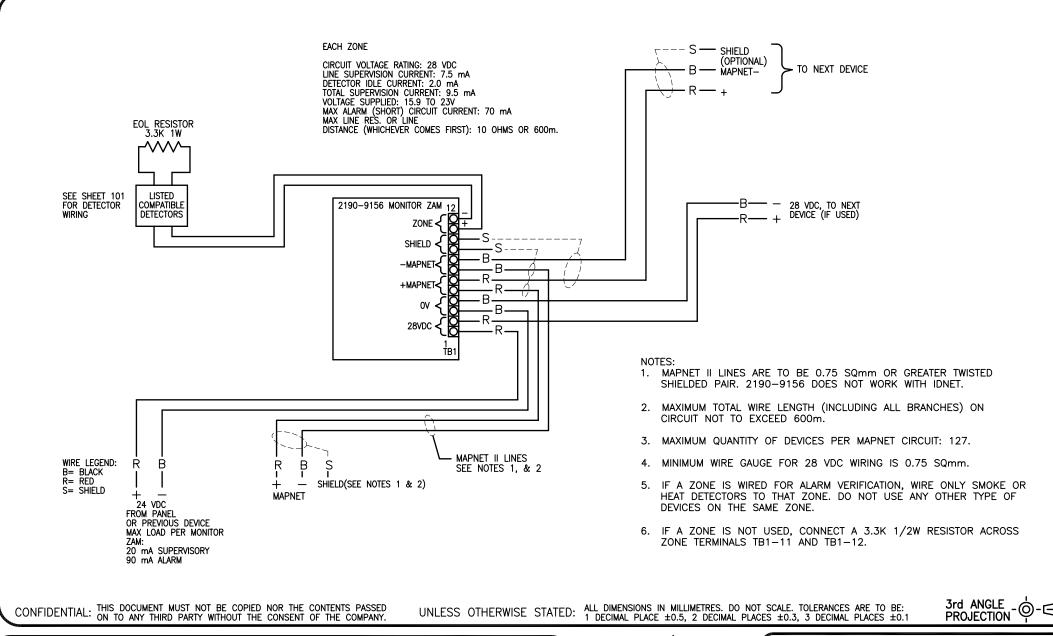
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4100U	
8 ZONE MODULE - CONVENTIONAL DETECT	OR:
WIRING DIAGRAM	

DRAWING No: 1976-181 SHEET 200 of N

PART No: ISS/REV



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ISS/REV	AMENDMENTS	EC0	DRN	CHKD	AUTH	APVD	DATE
A	ORIGINAL	-	KJS				21-7-06

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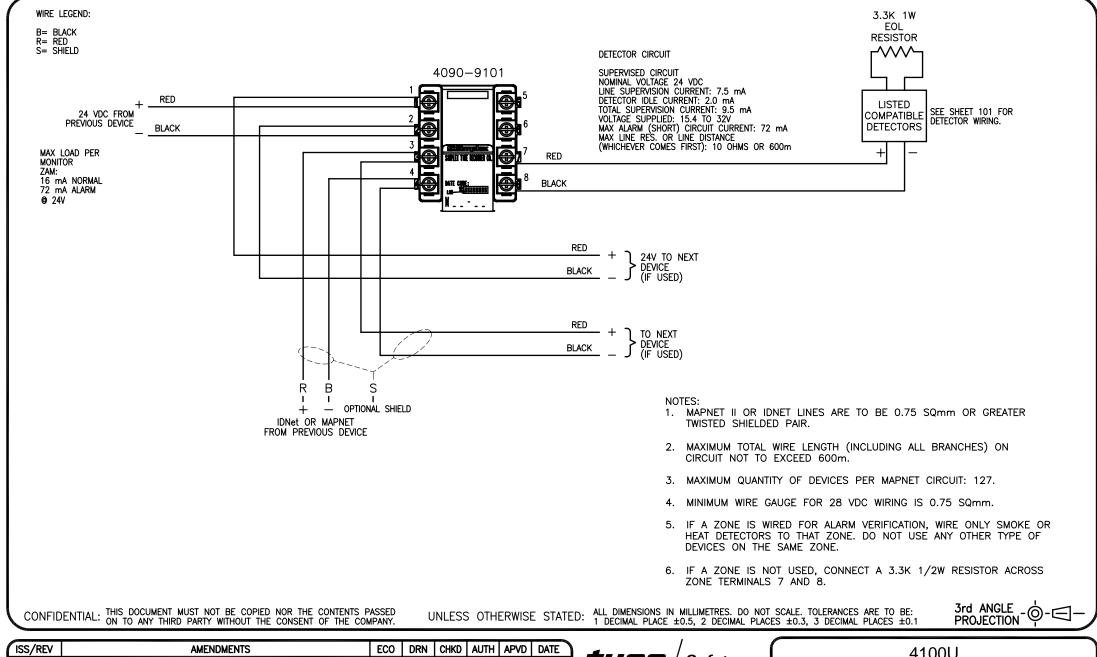
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4100U
MAPNET MONITOR ZONE ADDRESSABLE MODULE (2190-9156)
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 201 of N

A3 ISS/REV A PART No:



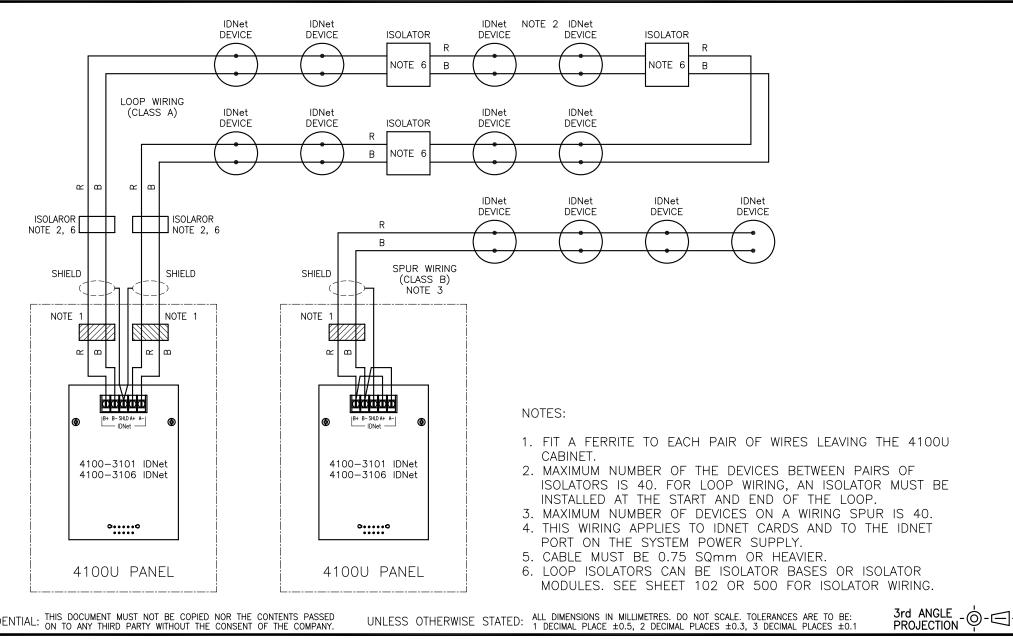
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Α	ORIGINAL	-	KJS				21-7-06

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4100U
<b>ZONE ADDRESSABLE MODULE (4090-9101)</b>
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 202 of N

A3 ISS/REV A PART No:



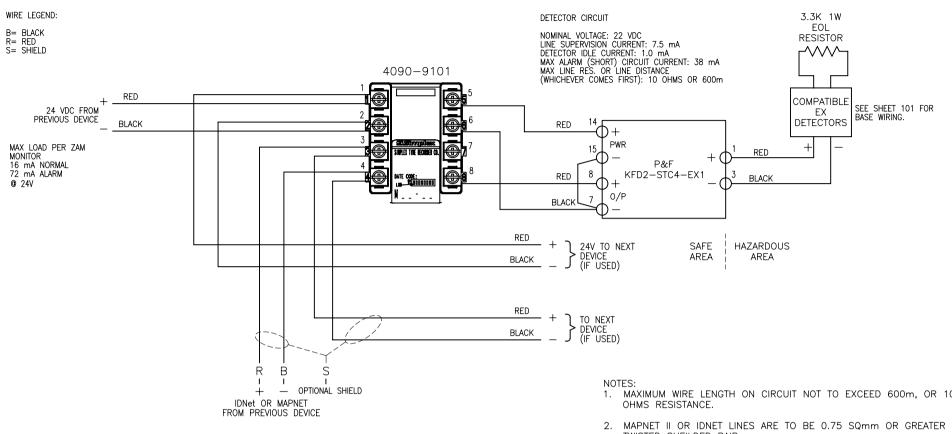
ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	-	KJS				30-8-06
В	NOTE 2 UPDATED. ISOLATORS AT START AND END.	3809	KJS	PA	LSC	DP	10-11-06

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#### 4100U IDNET LOOP CARD WIRING WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 203 of N

3 ISS/REV B PART No:



COMPATIBLE "Ex" DETECT	TORS	QTY/CCT
MD601Ex MDU601Ex MF601Ex MR601TEx MU601Ex 601FEx SHORT CIRCUIT DEVICE	(HEAT) (HEAT & CO) (ION) (PHOTO) (CO) (FLAME) (T54 ETC)	20 15 20 9 15 1

- 1. MAXIMUM WIRE LENGTH ON CIRCUIT NOT TO EXCEED 600m, OR 10
- TWISTED SHEILDED PAIR.
- 3. MAXIMUM QUANTITY OF DEVICES PER MAPNET CIRCUIT: 127.
- MINIMUM WIRE GAUGE FOR 24 VDC WIRING IS 0.75 SQmm.
- 24V SUPPLY AT ZAM 20.0-33V DC.
- 6. IF A ZONE IS NOT USED, CONNECT A 3.3K 1/2W RESISTOR ACROSS ZONE TERMINALS 7 AND 8.

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3rd	ANGLE	-    -    -	
PRO	JECTION	التا بها:	_

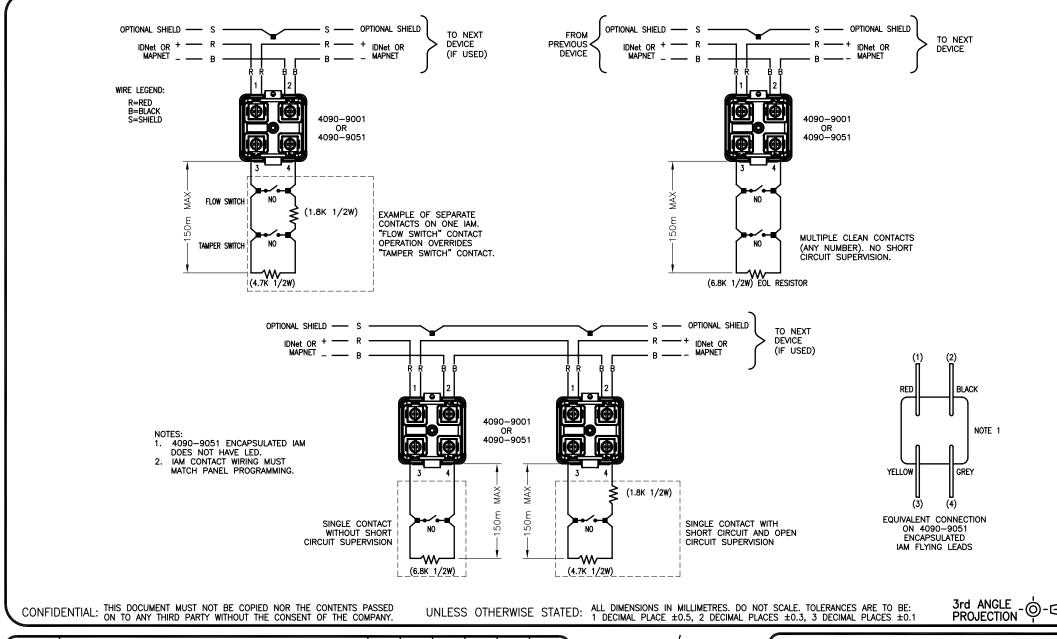
ISS/REV	AMENDMENTS	EC0	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	-	PAA	RAC	RAC	DSCP	18-7-07

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4100U
4090-9101 ZAM & "Ex" DETECTORS
WIRING DIAGRAM

1976-181 SHEET 205 of N DRAWING No: ISS/REV PART No:



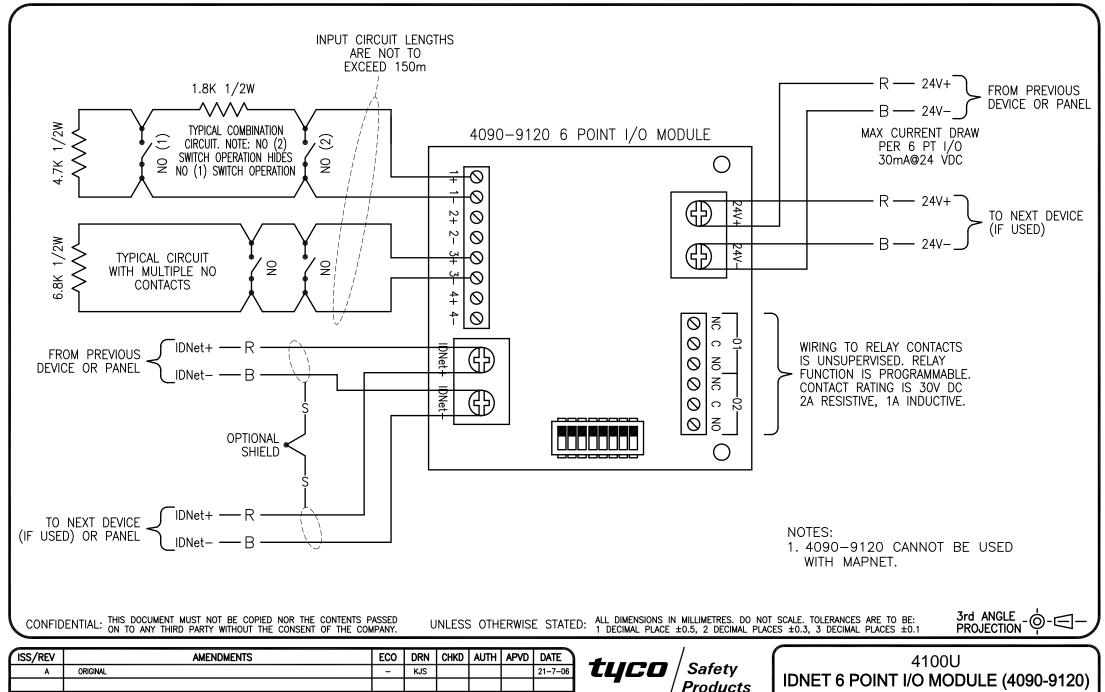
ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	-	KJS				21-7-06

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4100U
SUPERVISED IAM (4090-9001, 4090-9051)
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 301 of N

A3 ISS/REV A PART No:



ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	ı	KJS				21-7-06

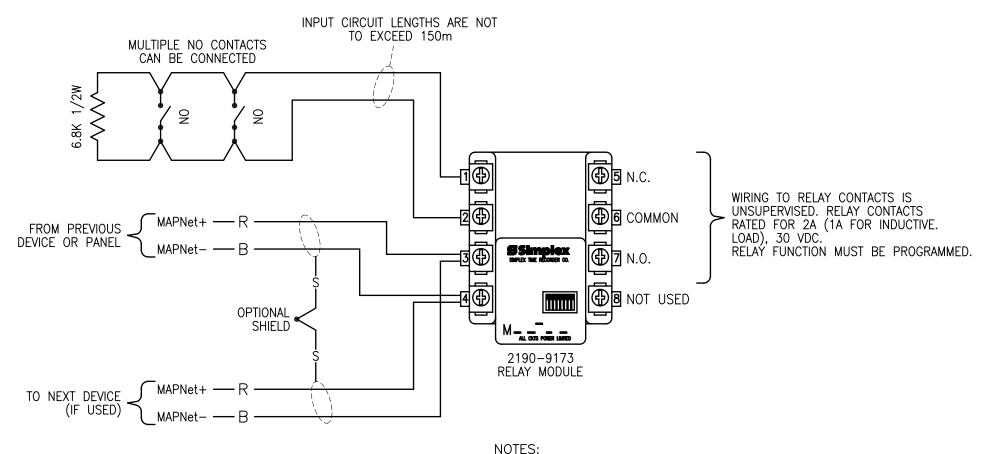
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4100U
IDNET 6 POINT I/O MODULE (4090-9120)
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 400 of N

ISS/REV PART No:



- 1. DO NOT MOUNT DEVICE WHERE IT WILL EXPERIENCE SHOCKS GREATER THAN 60G, VIBRATION GREATER THAN 2.5mm (10 TO 55 Hz DOUBLE AMPLITUDE), OR MAGNETIC FIELD GREATER THAN 7000A/m.
- 2. 2190-9173 CANNOT BE USED WITH IDNet.

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3rd ANGLE - - -

ISS/REV	AMENDMENTS	EC0	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	ı	KJS				21-7-06
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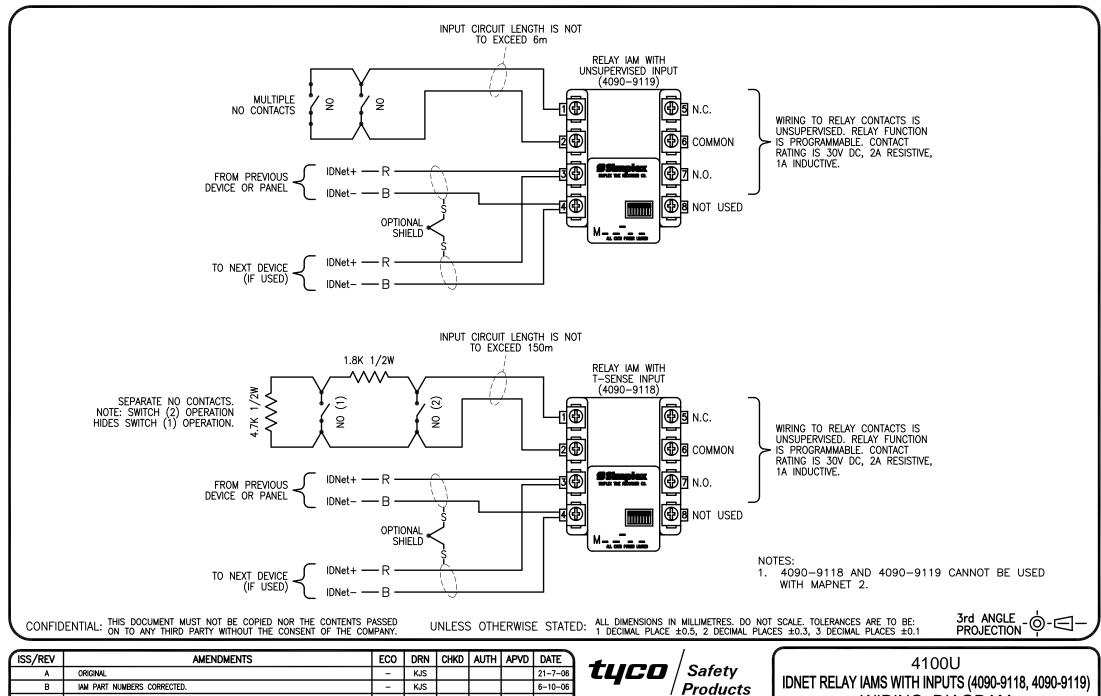
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4100U MAPNET RELAY MODULE WITH SUPERVISED INPUT (2190-9173) WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 401 of N

A3 ISS/REV A PART No:

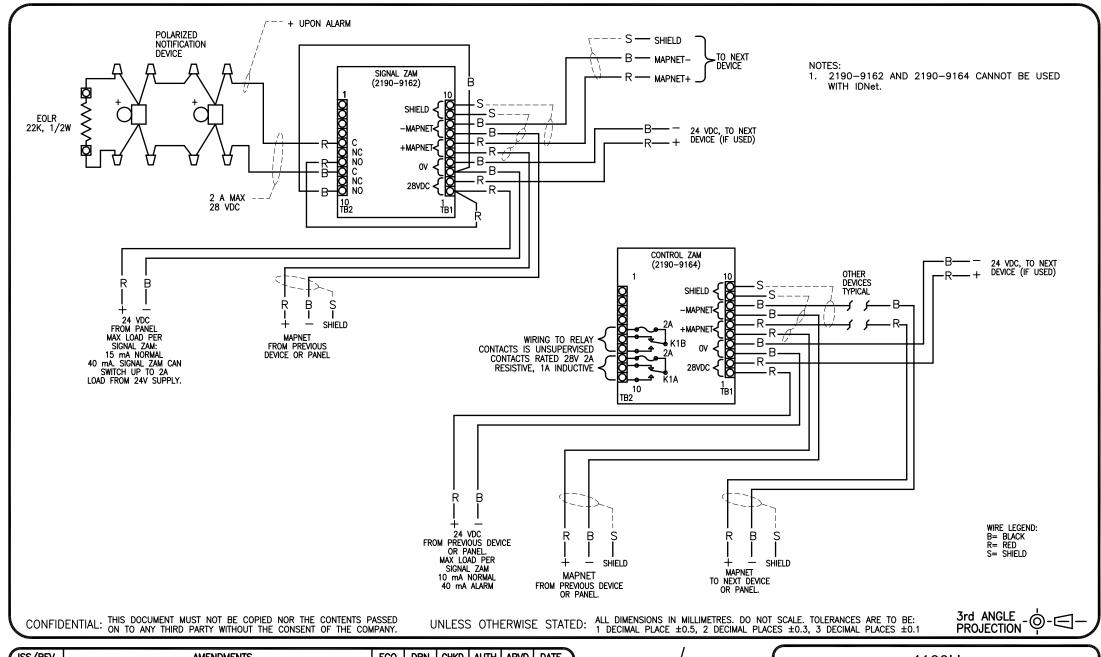


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Α	ORIGINAL	_	KJS				21-7-06	<b>tuco</b>   Safety
В	IAM PART NUMBERS CORRECTED.	-	KJS				6-10-06	<b>THCO</b>   Safety   Products
								TYCO SAFETY PRODUCTS
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4100U
IDNET RELAY IAMS WITH INPUTS (4090-9118, 4090-9119)
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 402 of N

ISS/REV PART No:



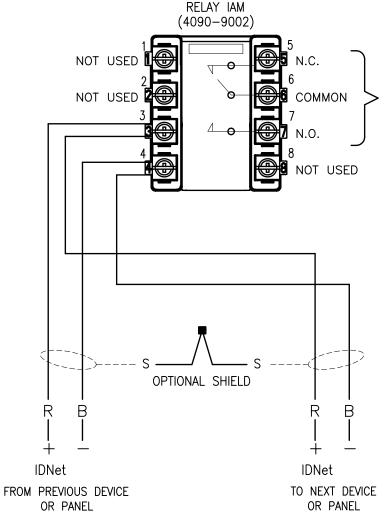
ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
A	ORIGINAL	-	KJS				21-7-06

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4100U MAPNET 2 SIGNAL ZAM (2190-9162) AND CONTROL ZAM (2190-9164) WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 403 of N

A3 ISS/REV A PART No:



WIRING TO RELAY CONTACTS IS UNSUPERVISED.
RELAY CONTACTS RATED AT 2A, 30 VDC. (1A FOR INDUCTIVE LOAD).
THE OPERATION OF THE RELAY IS PROGRAMMABLE.

#### NOTES:

- 1. IF SHIELD IS PRESENT, IT SHOULD BE CONNECTED TO THE OUTGOING IDNet SHIELD TO PROVIDE A CONTINUOUS SHIELD OVER THE LENGTH OF THE IDNet CIRCUIT. DO NOT CONNECT THE SHIELD TO ANY METALWORK AT THE ZAM.
- 2. 4090-9002 CANNOT BE USED WITH MAPNET.

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3rd ANGLE - O-

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
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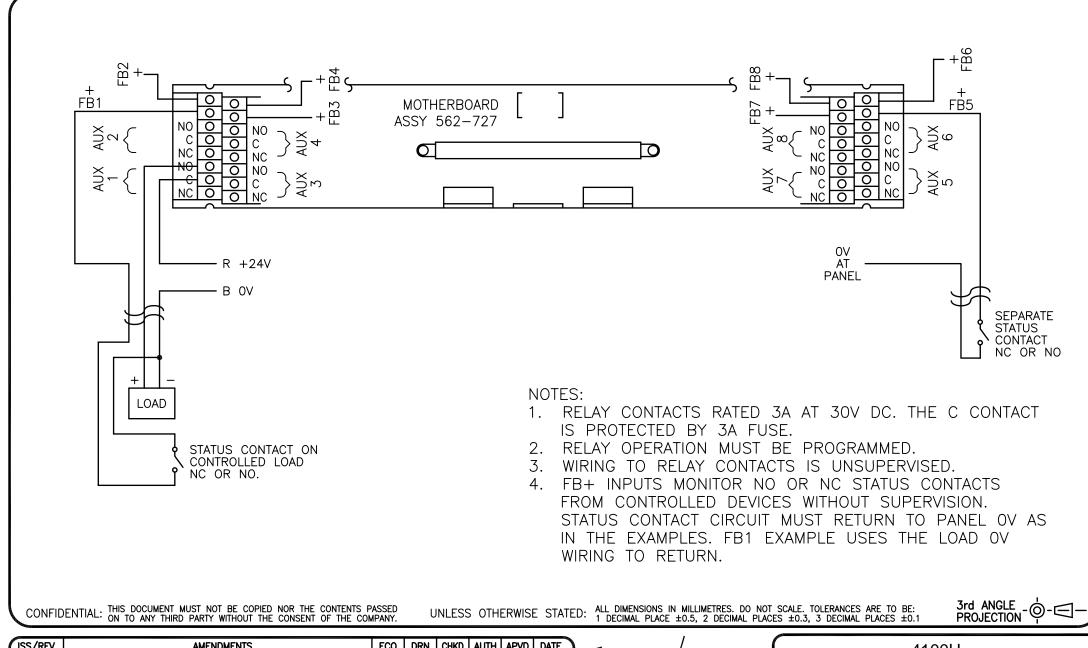
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4100U
IDNET RELAY IAM (4090-9002)
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 404 of N

3 ISS/REV A PART No:



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Α	ORIGINAL	ı	KJS				21-7-06

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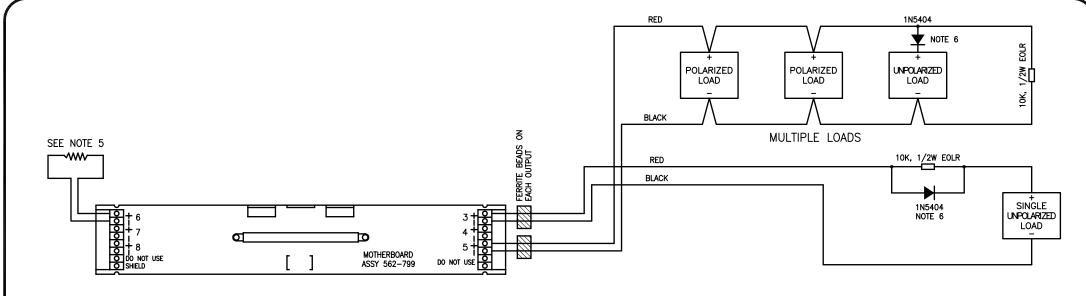
41000	
8 POINT AUXILARY RELAY CARD (410	0-3003)
WIRING DIAGRAM	·

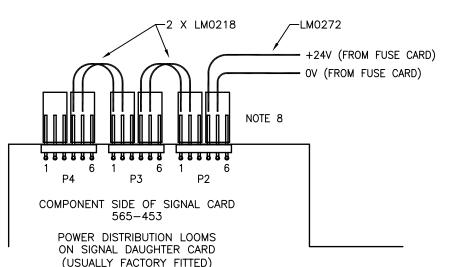
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A3 ISS/REV A PART No:





- ALL WIRING MUST BE 1.5 SQ.mm SHIELDED PAIR OR TO LOCAL CODE.
- 2. CONDUCTORS MUST BE FREE OF ALL GROUNDS.
- ALL WIRING IS SUPERVISED UNLESS OTHERWISE NOTED. SUPERVISORY POWER: 2.4 mA @ 24V DC.
- 4. ALL SIGNAL PORTS HAVE IDENTICAL CHARACTERISTICS: CAPACITY IS AT 30V DC.
- 5. IF A CIRCUIT IS NOT USED, CONNECT 10K, 1/2W EOLR FROM SIG+ TO SIG- TERMINALS.
- 6. BLOCKING DIODE (IN5404, 3A) REQUIRED WHEN SWITCHING NON-POLARIZED LOADS.
- 7. OUTPUT OPERATION MUST BE PROGRAMMED. THERE IS NO DEFAULT BEHAVIOUR.
- 8. DISTRIBUTION LOOMS AND CONNECTORS:
  - -P2 CONNECTS TO THE FIRST TWO POINTS (SIGNAL 3 AND 4)
  - -P3 CONNECTS TO THE NEXT TWO POINTS (SIGNAL 5 AND 6)
  - -P4 CONNECTS TO THE FIRST TWO POINTS (SIGNAL 7 AND 8)
  - -PINS 1 AND 4 CONNECT TO +24V.
  - -PINS 2 AND 5 CONNECT TO OV.
  - -PINS 3 AND 6 ARE TO LOOP SHIELD THROUGH (IF USED).
  - -JUMPERS P5 TO P10 ON SIGNAL CARD ARE IN "S" POSITION.

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3rd ANGLE - O- -

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	-	KJS				20-9-06

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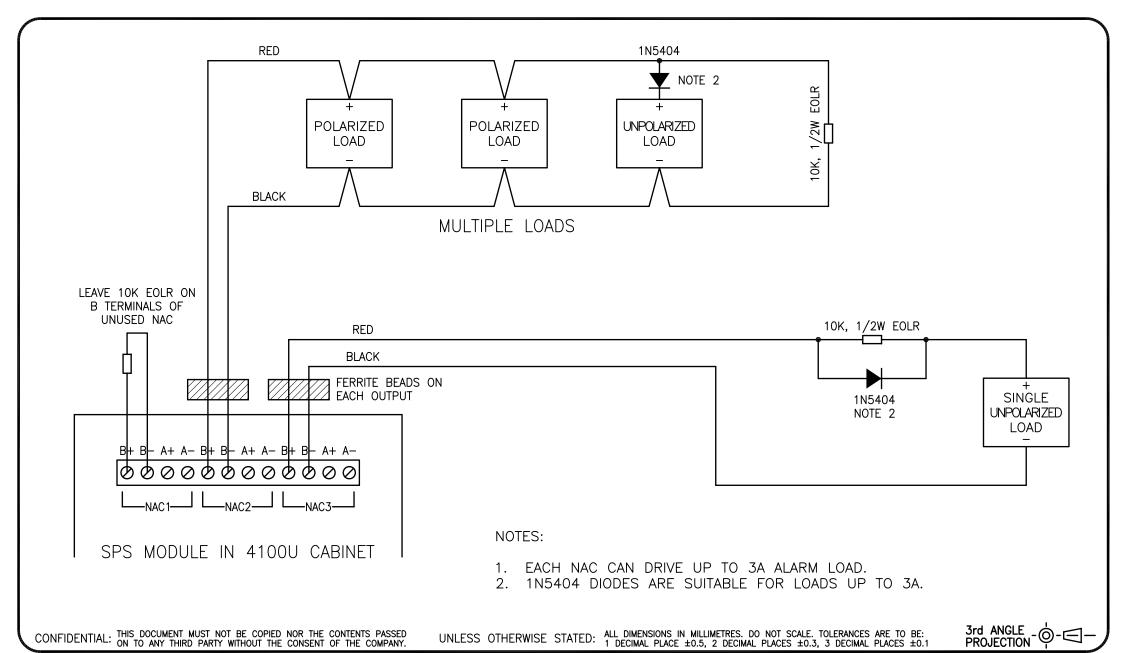
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	41	00U	
6 POINT	SIGNAL	CARD	(4100-4321)
	WIRING	DIAGRA	ΔM

DRAWING No: 1976-181 SHEET 406 of N

A3 | ISS/REV A | PART No:



ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
A	ORIGINAL	-	KJS				22-8-06

Safety Products

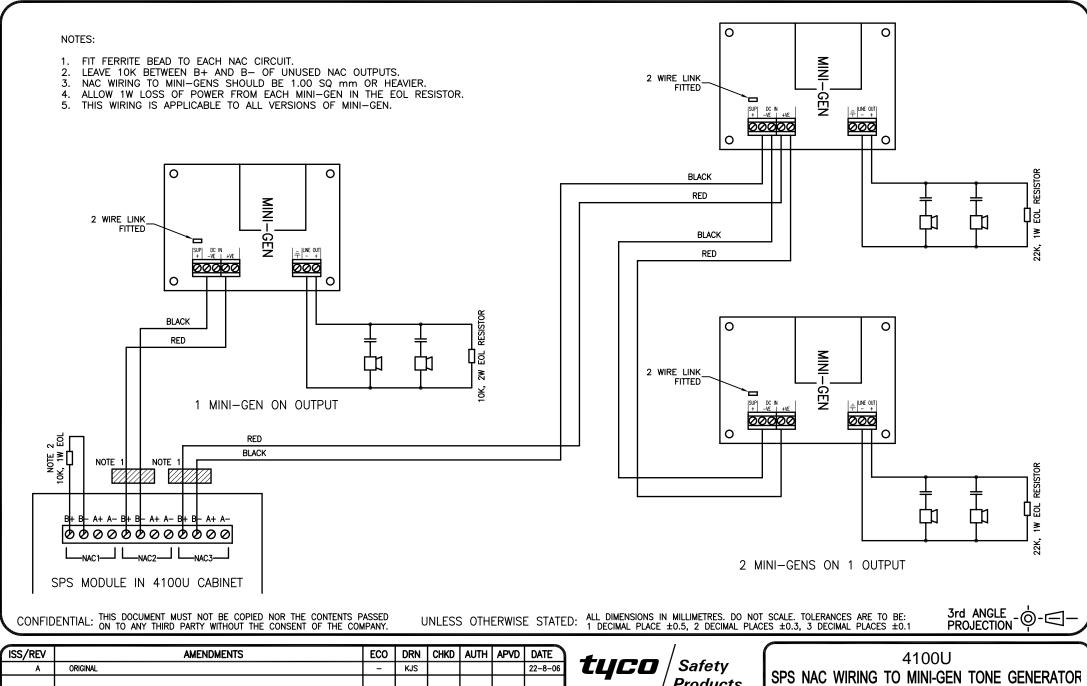
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	410	0U
SPS	NAC	LOADS
WIRI	NG D	IAGRAM

DRAWING No: 1976-181 SHEET 407 of N

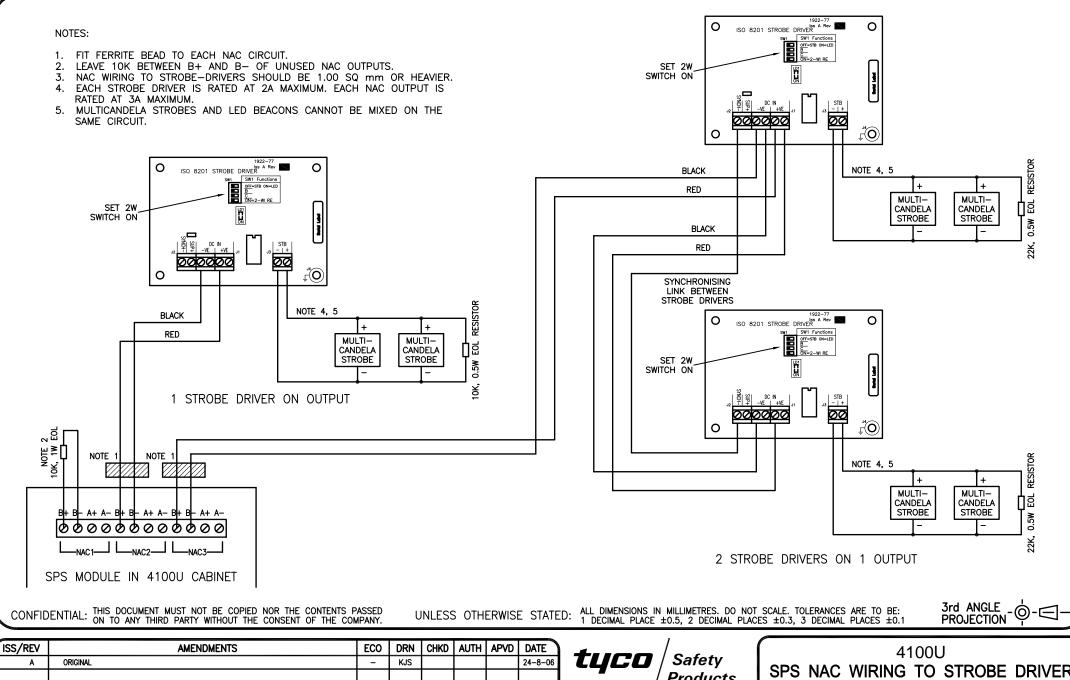
ISS/REV PART No:



ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE	4
Α	ORIGINAL	_	KJS				22-8-06	<b>tuco</b>   Safety
								<b>THCO</b>   Safety Products
								TYCO SAFETY PRODUCTS
								17 MARY MULLER DRIVE
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								CHRISTCHURCH, PH: +64 3 3895096
<b>W</b>							1200	NEW ZEALAND. FAX:+64 3 3895938

				4100U			
SPS	NAC	WIRING	TO	MINI-GEN	<b>TONE</b>	<b>GENERA</b>	<b>TOR</b>
		WIR	RIN	G DIAG	<b>RAM</b>		

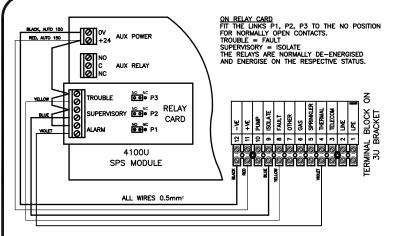
DRAWING No: 1976-181 SHEET 409 of N ISS/REV PART No:



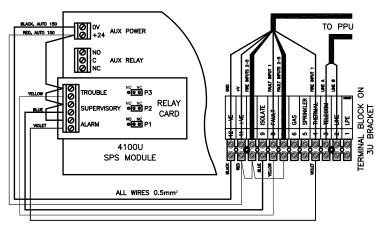
ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE	4
A	ORIGINAL	-	KJS				24-8-06	<b>tuco</b>   Safety
								<b>tyco</b>   Safety   Products
								TYCO SAFETY PRODUCTS
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Marie Control							1525	NEW ZEALAND. FAX:+64 3 3895938

	4	1000	
SPS NA	AC WIRING	TO STROBE	DRIVER
	WIRING	DIAGRAM	

DRAWING No: 1976-181 SHEET 410 of N PART No: ISS/REV



#### WESTERN AUSTRALIA AIU WIRING



#### QUEENSLAND PPU WIRING

ON RELAY CARD FIT THE LINKS P1, P2, P3 TO THE NC POSITION FOR NORMALLY CLOSED CONTACTS. TROUBLE = FAULT SUPERVISORY = ISOLATE THE RELAYS ARE NORMALLY DE-ENERGISED AND ENERGISE ON THE RESPECTIVE STATUS.

00 CARD RED NO NC Ø TWISTED PAIR, WHITE 4100U SPS MODULE SECURE WIRES AND FP0740 AS NECESSARY USING SU0020 & SU0099. REMOVABLE ASE COVER 0 0 0 ô 凝 Ol 0 3 WAY CONNECTOR. ackslash 2 WAY CONNECTOR, CN0260. CN0317.

000

TROUBLE

SUPERVISORY

YELLOW

BLUE

BLUE

ASE FAS INTERFACE ALM/FLT/ISO

ALL DIMENSIONS IN MILLIMETRES. DO NOT SCALE. TOLERANCES ARE TO BE: 1 DECIMAL PLACE  $\pm 0.5$ , 2 DECIMAL PLACES  $\pm 0.3$ , 3 DECIMAL PLACES  $\pm 0.1$ UNLESS OTHERWISE STATED:

0

FUSE BOARD

<u>o o olo olo o olo olo olo o o</u>

WR0004, AUTO 150, BLACK

FP0740

FAS INTERFACE,

ALM/FLT/ISO

WR0010, AUTO 150, RED

3rd ANGLE PROJECTION

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
A	ORIGINAL	-	KJS				29-8-06

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4100U SPS BRIGADE RELAY (4100-6033) WIRING DIAGRAM

FIT THE LINKS P1, P2, P3 TO THE NC POSITION FOR NORMALLY CLOSED CONTACTS.

THE RELAYS ARE NORMALLY DE-ENERGISED

AND ENERGISE ON THE RESPECTIVE STATUS.

TROUBLE = FAULT

RELAY

AUX RELAY

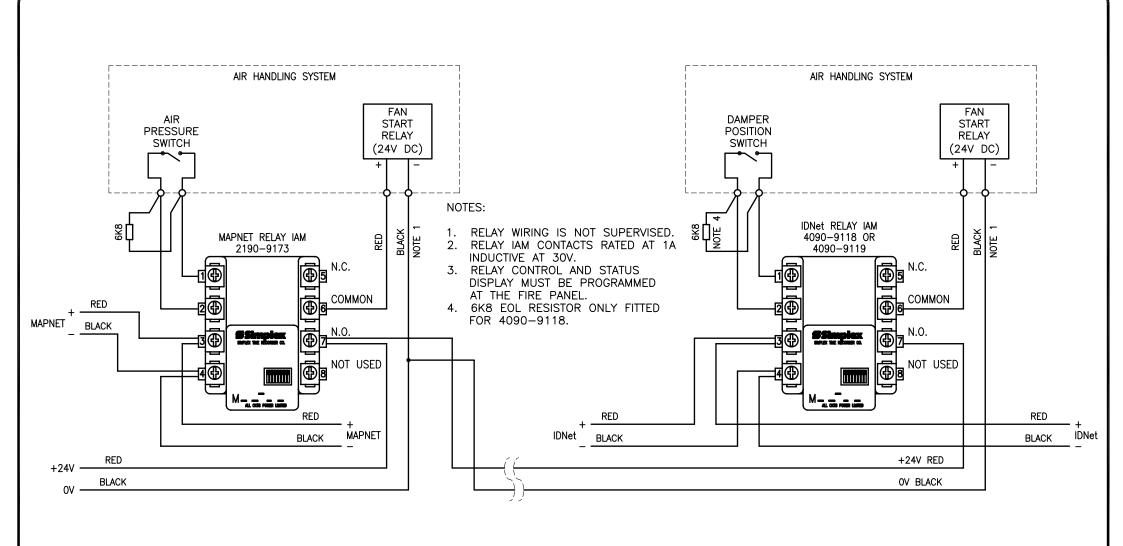
NO NC P3

NO NC P2

SUPERVISORY = ISOLATE

DRAWING No: 1976-181 SHEET 411 of N

ISS/REV PART No:



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Safety

3rd ANGLE PROJECTION

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	-	KJS	SC			22-8-06
В	NOTE 4 ADDED	-	KJS				5-10-06
			, and the second	·			

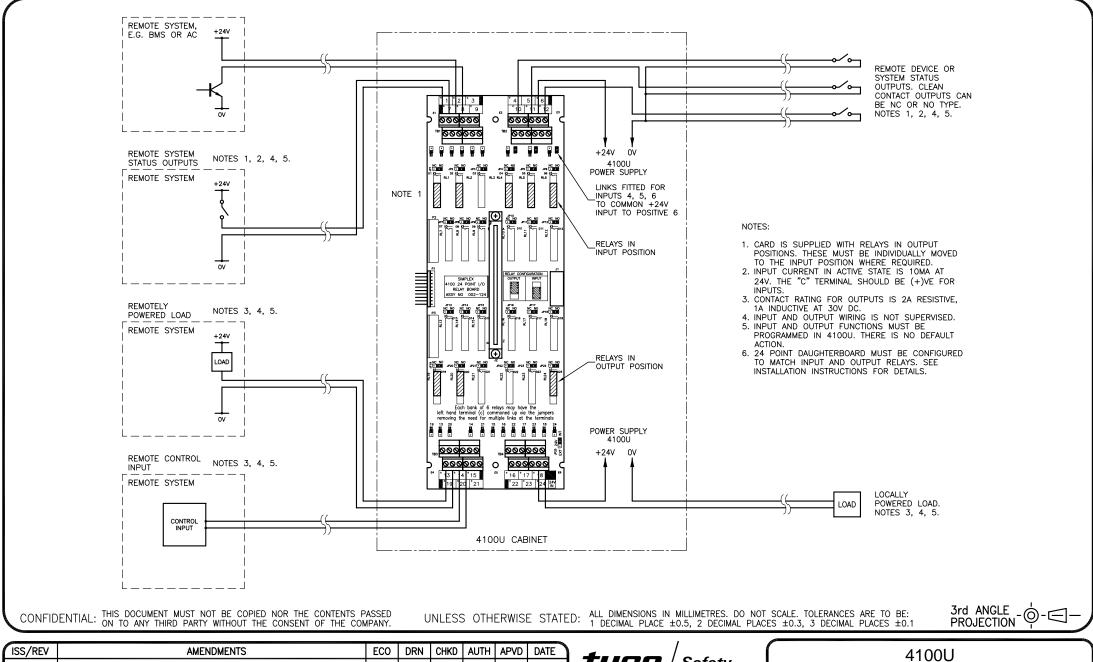
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4100U **EXAMPLES - FAN CONTROLS WITH RELAY IAMS** WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 412 of N

ISS/REV PART No:



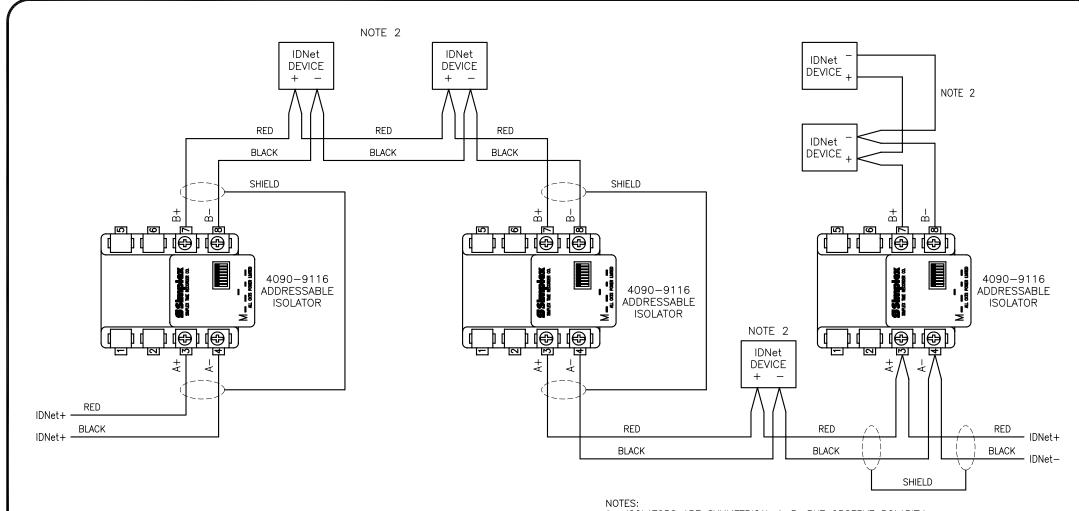
ISS/REV	AMENDMENTS	EC0	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	-	KJS				7-9-06
В	"0V" 2 PLACES WAS "+24C"	ECS1371	KJS				10-7-09
							)

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4100U 24 POINT I/O CARD (002-124) WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 413 of N

A3 ISS/REV B PART No:



 ISOLATORS ARE SYMMETRICAL A-B, BUT OBSERVE POLARITY.
 NUMBER OF DEVICES BETWEEN ISOLATORS OR ON A WIRING SPUR IS RESTRICTED TO 40. ISOLATOR BASES ALSO COUNT

AS ISOLATORS. SEE SHEET 102 FOR BASE WIRING.

3. 4090-9116 CANNOT BE USED WITH MAPNET.

 AN ADDRESSABLE ISOLATOR OR ISOLATOR BASE (SEE SHEET 102) MUST BE INSTALLED AT THE START AND END OF EACH LOOP.

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3rd ANGLE - O-

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	_	KJS				30-8-06
В	NOTE 4 ADDED.	3809	KJS	PA	LSC	DP	20-11-06

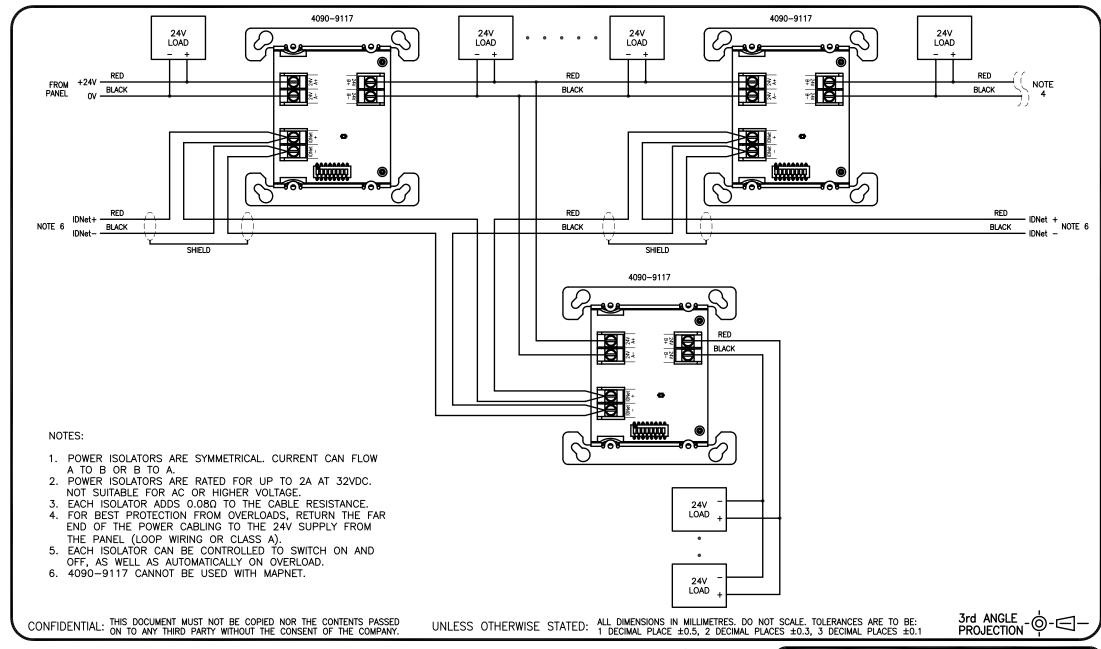
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4100U
ADDRESSABLE IDNET ISOLATOR (4090-9116)
WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 500 of N

A3 ISS/REV B PART No:



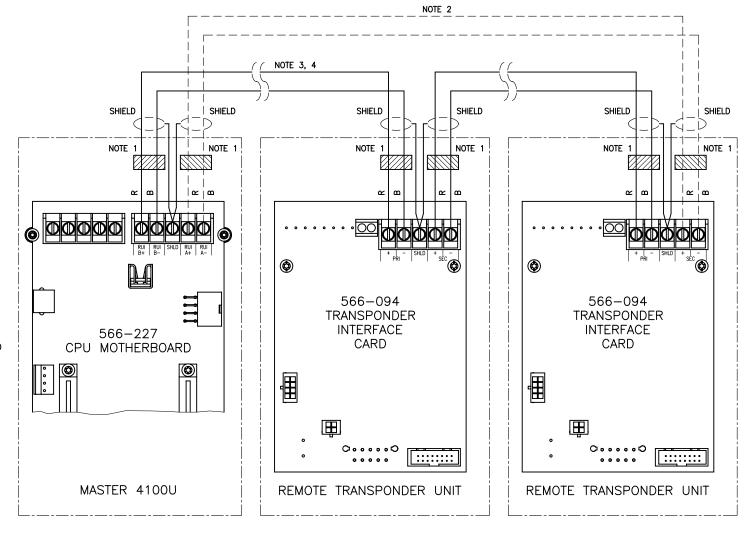
ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE	4
Α	ORIGINAL	-	KJS				29-7-06	<b>tuco</b>   Safety
								<b>tyco</b> Safety Products
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4100U
ADDRESSABLE POWER ISOLATOR (4090-9117
WIRING DIAGRAM `

DRAWING No: 1976-181 SHEET 501 of N

PART No: ISS/REV

- FIT FERRITE BEAD TO EACH PAIR OF WIRES LEAVING THE CABINET.
- 2. LOOP MODE (CLASS A) PROVIDES BEST SECURITY SINCE A FAULT IN ONE SECTION WILL NOT PREVENT COMMUNICATION. IF LOOP MODE IS NOT USED, LINK B+TO A+ AND B-TO A-ON CPU MOTHERBOARD.
- IF WIRES LEAVE THE BUILDING, FIT 2081-9044 OVERVOLTAGE PROTECTOR AT EXIT AND ENTRY POINTS.
- 4. THE CONSTRAINTS ON RUI CIRCUIT CABLING ARE:
- A. CABLE USED MUST BE 0.75 SQmm OR HEAVIER (AS 1670.1 REQUIREMENT).
- B. THE TOTAL CABLE CAPACITANCE AND RESISTANCE MUST BE NO MORE THAN 0.58  $\mu F$  and 360 respectively. If voltage transient suppressors are used, the added capacitance and resistance from these devices must be considered.
- C. FOR CLASS B/SPUR WIRING,
  i. THE CABLE DISTANCE FROM THE MASTER 4100U TO
  ANY SLAVE RTU IS NO MORE THAN 760M, AND THE
  COLLECTIVE DISTANCE OF ALL SPURS ON THE RUI
  CIRCUIT IS NO MORE THAN 3000M.
  ii. THE TOTAL NUMBER OF DETECTION DEVICES SERVED
  BY THE RUI WIRING IS LIMITED TO 40 (AS 1670.1
  REQUIREMENT).
- D. FOR CLASS A/LOOP WIRING,
  i. THE TOTAL CABLE DISTANCE AROUND THE LOOP IS NO MORE THAN 760M.
  ii. THERE IS NO SPECIFIC LIMIT FOR DETECTION DEVICES CONNECTED TO RTUS FORMING PART OF THE LOOP.
  iii. RTUS SERVED BY A SPUR FROM THE LOOP ARE LIMITED TO 40 DETECTION DEVICES (AS 1670.1 REQUIREMENT).
- E. RUI CABLING MUST NOT BE RUN CLOSER THAN 50MM TO 240V MAINS CABLING, OR CLOSER THAN 150MM TO HIGHER MAINS VOLTAGES (AS \$5009 REQUIREMENT).
- F. IF RUI CABLING AND MAPNET/IDNET CABLING ARE RUN IN CLOSE PARALLEL, E.G., IN CONDUIT, EITHER THE RUI OR THE MAPNET/IDNET CABLING MUST BE SCREENED.



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3rd ANGLE - - □-

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	-	KJS				24-8-06
В	ADDED RUI CABLE REQUIREMENTS (FROM PBS0027).	4070	KJS	LSC	RC	DP	15-10-09

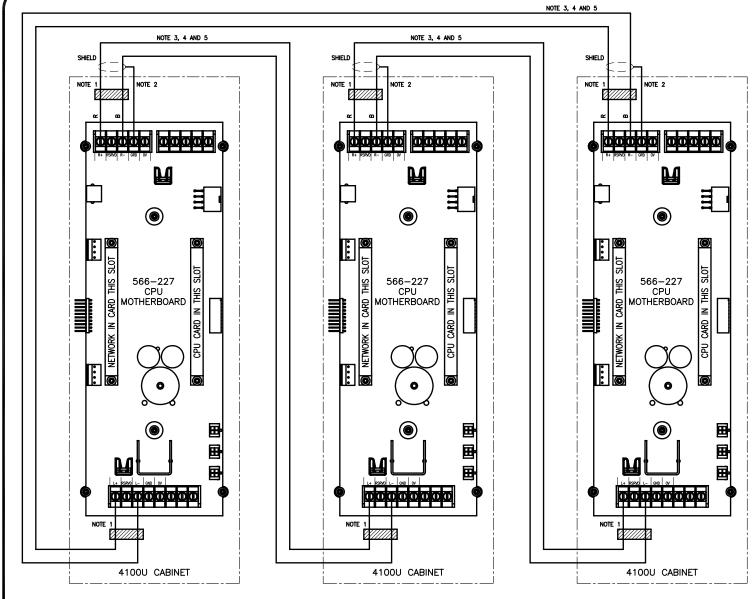
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	4100U
TRANSPONDER	INTERFACE (4100-0620)
WIRIN	IG DIAGRAM

DRAWING No: 1976-181 SHEET 600 of N

3 ISS/REV B PART No:



- FIT FERRITE BEAD TO EACH PAIR OF WIRES LEAVING THE CABINET.
- 2. ONLY CONNECT SHIELDS TO GROUND AT "RIGHT" PORTS.
- 3. THE "RIGHT" PORT OF ONE PANEL IS ALWAYS CONNECTED TO THE "LEFT" PORT OF THE NEXT PANEL. THE LAST PANEL MUST BE CONNECTED BACK TO THE FIRST PANEL TO FORM A CLOSED LOOP.
- WIRE TO BE 0.75 SQ.mm SHIELDED TWISTED PAIR (3000m MAX) OR 0.2 SQ.mm SHIELDED OR UNSHIELDED TWISTED PAIR (2000m MAX).
- IF WIRES LEAVE THE BUILDING, FIT 2081-9044 OVERVOLTAGE PROTECTORS AT EXIT AND ENTRY POINTS.

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3rd ANGLE PROJECTION

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	_	KJS				7-9-06
		·				·	

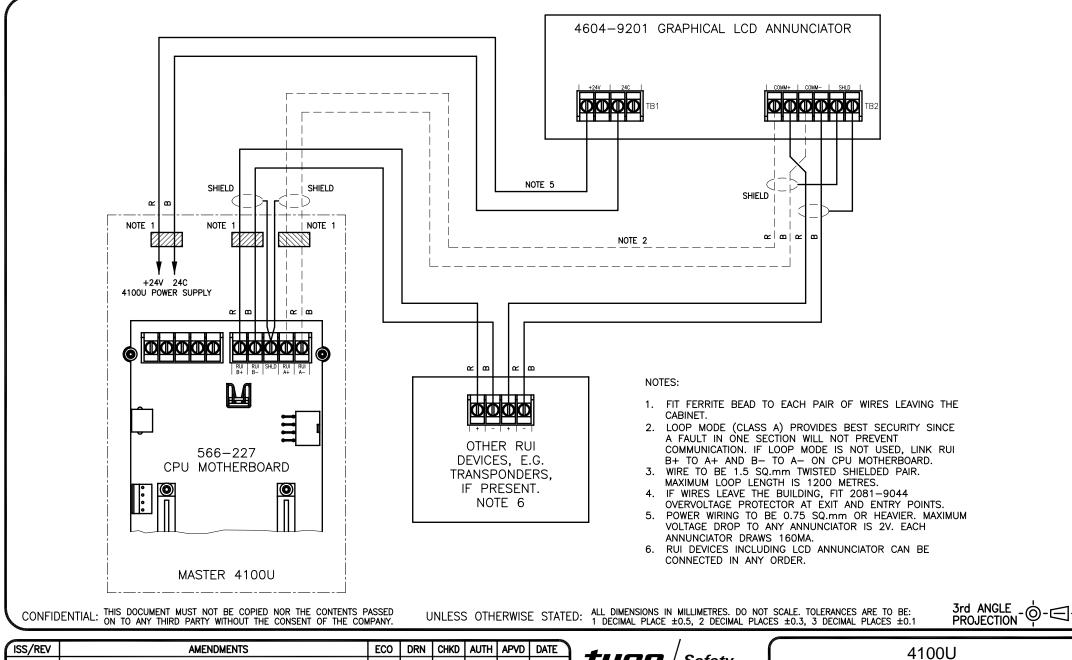
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4100U NETWORK INTERFACE (WIRED MEDIA) (4100-6014) WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 601 of N

A3 ISS/REV A PART No:

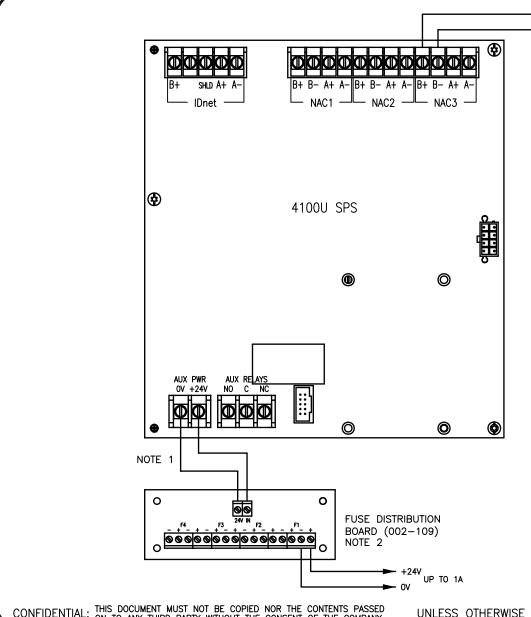


ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE	<b>4</b>
Α	ORIGINAL	-	KJS				8-9-06	<b>tuco</b>   Safety
								<b>tyco</b>   Safety   Products
								TYCO SAFETY PRODUCTS
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LCD ANNUNCIATOR (4604-9201) WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 606 of N

PART No: ISS/REV



24V UP TO 2A

NOTE 3

- 1. AUXILIARY POWER OUTPUT FROM SPS IS PROTECTED BY A PTC WITH 2A RATING.
- 2. ALL FUSES ON THIS BOARD ARE 1A 20 X 5mm TYPE. DO NOT REPLACE WITH HIGHER RATINGS. EACH FUSE FEEDS TWO SETS
- 3. NAC OUTPUTS CAN BE INDIVIDUALLY PROGRAMMED AS AUXILIARY POWER OUTPUTS. EACH NAC OUTPUT IS RATED AT 2A MAXIMUM. NAC B- TERMINAL MUST NOT BE LINKED TO OV SINCE THIS WILL BYPASS CURRENT LIMITING CIRCUITRY IN THE SPS.
- 4. DO NOT CONNECT LOADS DIRECTLY TO THE STANDBY BATTERIES. THIS WILL CONFUSE 4100U SYSTEM MANAGEMENT OF BATTERY CHARGING AND MAY LEAD TO BATTERY DISCHARGE IN SOME SITUATIONS.

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ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	_	KJS	SC			20-9-06
В	NOTE 2 CHANGED.	_	KJS				5-10-06

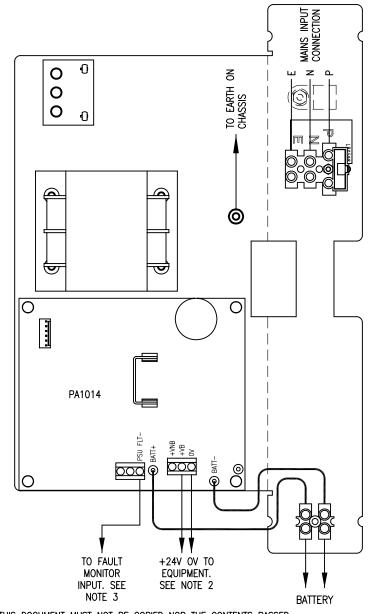
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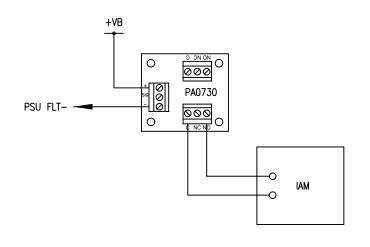
	41	00	U
SPS	POWE	R	<b>OUTPUTS</b>
W	IRING	DI	AGRAM

DRAWING No: 1976-181 SHEET 700 of N

ISS/REV PART No:



- PSU IS MOUNTED ON 4 X 202-090 SUPPORT POSTS SUPPLIED WITH THE KIT.
- THE +VB OUTPUT FROM THE PSU IS BATTERY BACKED. THE +VNB OUTPUT MUST ONLY BE USED FOR EQUIPMENT NOT REQUIRING BATTERY BACK UP. REFER TO LT0232 FOR PSU CONFIGURATION DETAILS.
- 3. THE PSU FLT— OUTPUT MUST BE MONITORED BY THE FIRE PANEL, USING A FEEDBACK INPUT OR SIMILAR. IF AN IAM IS USED, AN ISOLATING RELAY, SUCH AS PA0730, MUST BE WIRED BETWEEN THE PSU FLT— OUT AND IAM INPUT. THE RELAY OPERATES ON A FAULT.



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3rd ANGLE PROJECTION

ISS/REV	AMENDMENTS	EC0	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	4070	KJS	LSC	RC	DP	15-10-09
						, and the second	

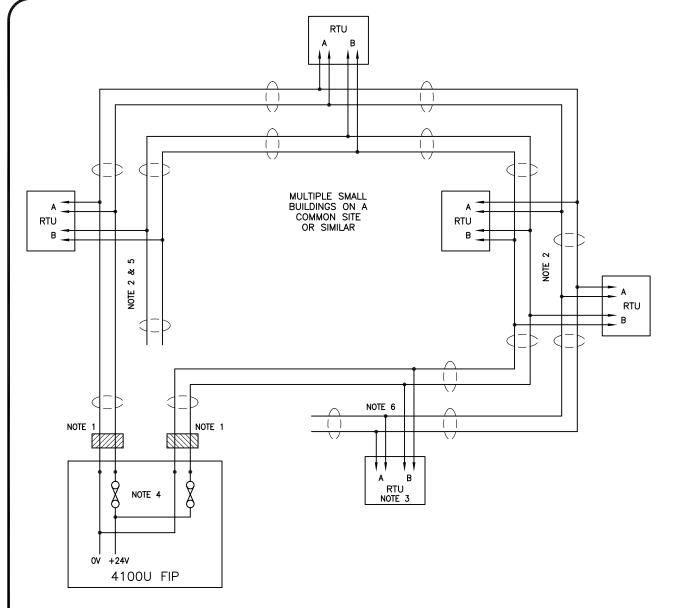
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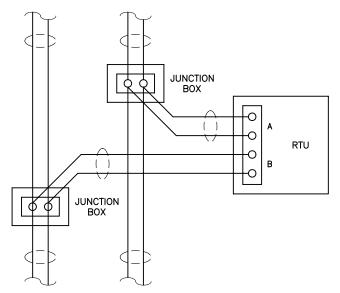
		4	4100U	
1948	2A	PSU	<b>POWER</b>	<b>OUTPUTS</b>
	V	/IRIN	G DIAGR	AM

DRAWING No: 1976-181 SHEET 701 of N

A3 SS/REV A PART No: LT0432



- FIT FERRITE BEAD TO EACH PAIR OF WIRES LEAVING THE FIP CABINET.
- THE CLOCKWISE AND ANTI CLOCKWISE POWER FEED CIRCUITS MUST BE PHYSICALLY SEPARATED FOR REDUNDANCY, UNLESS RUN UNDERGROUND, OR PROTECTED TO LEVEL WSX3 (AS/NZS 3013). (AS1670.1 REQUIREMENT).
- 3. EACH RTU HAS A COMBINING CIRCUIT AND SUPERVISION FOR THE DUAL DC FEED. SUPPLY FAULTS ARE MONITORED BY THE TRANSPONDER INTERFACE CARD (TIC).
- 4. THE DC FEEDS FROM THE FIP MUST BE SEPARATELY FUSED OR PROTECTED AGAINST OVERLOAD.
- 5. MINIMUM CABLE SIZE MUST BE DETERMINED BASED ON TOTAL RTU LOAD. REFER TO SHEET 600 FOR REQUIREMENTS ON THE RTU COMMUNICATIONS WIRING.
- 6. SUGGESTED WIRING AT THE TAP-OFF TO EACH RTU IS SHOWN HERE.



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3rd ANGLE - O-

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	4070	KJS	LSC	RC	DP	16-10-09

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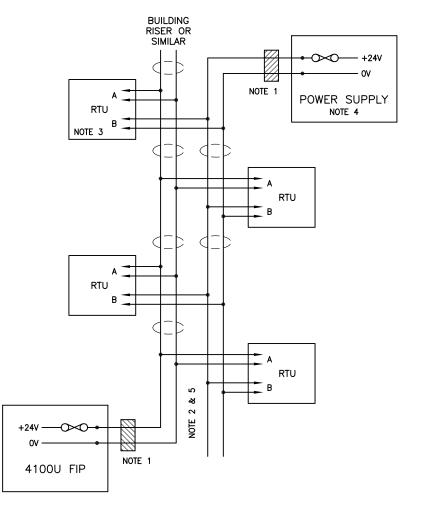
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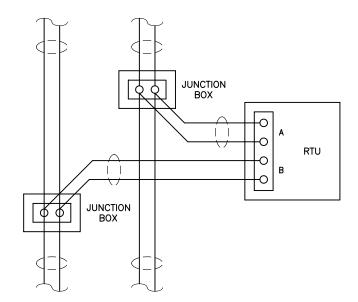
4100U RTU - RING FEED DC POWER WIRING DIAGRAM

DRAWING No: 1976-181 SHEET 703 of N

A3 | ISS/REV A | PART No:



- FIT FERRITE BEAD TO EACH PAIR OF WIRES LEAVING THE FIP AND PSU CABINET.
- THE UP AND DOWN POWER FEED CIRCUITS MUST BE PHYSICALLY SEPARATED FOR REDUNDANCY, UNLESS RUN UNDERGROUND, OR PROTECTED TO LEVEL WSX3 (AS/NZS 3013). (AS1670.1 REQUIREMENT).
- 3. EACH RTU HAS A COMBINING CIRCUIT AND SUPERVISION FOR THE DUAL DC FEED. SUPPLY FAULTS ARE MONITORED BY THE TRANSPONDER INTERFACE CARD (TIC).
- THE TOP POWER MAY BE FROM A MAINS POWERED RTU OR STANDALONE POWER SUPPLY. A STANDALONE SUPPLY MUST BE MONITORED FOR FAULTS.
- 5. NECESSARY WIRING MINIMUM CABLE SIZE MUST BE DETERMINED BASED ON TOTAL RTU LOAD. REFER TO SHEET 600 FOR REQUIREMENTS ON THE RTU COMMUNICATIONS WIRING.
- 6. SUGGESTED WIRING AT THE TAP-OFF TO EACH RTU IS SHOWN HERE.



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3rd ANGLE - O - O -

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
Α	ORIGINAL	4070	KJS	LSC	RC	DP	16-10-09

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41000		
RTU - LINEAR FEED	DC	POWER
WIRING DIAG	RA	M

DRAWING No: 1976-181 SHEET 704 of N

3 ISS/REV A PART No:

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