



MODE	SW1 SETTINGS			
	A	B	C	D
4 WIRE FULL DUPLEX - RX/TX ALWAYS	ON	ON	OFF	OFF
4 WIRE FULL DUPLEX - RX ALWAYS, TX RTS CONTROL	ON	OFF	OFF	OFF
2 WIRE HALF DUPLEX - RX ALWAYS, TX RTS CONTROL - A AND B CHANNELS	ON	OFF	ON	ON
2 WIRE HALF DUPLEX - RX IF NOT TX, TX RTS CONTROL - A AND B CHANNELS - A CHANNEL ONLY	OFF	OFF	ON	ON

FITTED FOR PLUG-ON AND FRC ONLY VERSIONS

FITTED FOR PLUG-ON VERSION

FITTED FOR RS-232 VERSION
CUT OFF THIS SECTION OF PCB FOR PLUG-ON VERSION

LK1-4 LINK SETTINGS

LK1	FIT FOR DCD HIGH
LK2	FIT FOR DSR HIGH
LK3	IBM PC QE90
LK4	IBM PC QE90

FIT 1-3,2-4 ALWAYS
FIT 1-2,3-4 ALWAYS
FIT 1-2 ALWAYS
FIT 3-4 FOR CTS HIGH
FIT 1-3 ALWAYS
FIT 2-4 FOR CTS HIGH

CONFIGURATION

ISOLATED	U4 FITTED
NON-ISOLATED	LINK U4-1 TO U4-7 & U4-4 TO U4-5 U4 NOT FITTED
RS-232	U1, C1-5, J5, LK1-4 FITTED J1, J2 NOT FITTED
PLUG ON	J1, J2 FITTED U1, C1-5, J5, LK1-4 NOT FITTED
FRC ONLY	J1 FITTED U1, C1-5, J5, LK1-4 NOT FITTED
EXTERNAL POWER	C6, C7, D1, J6, U2 FITTED
CONNECTOR POWER	C6, C7, D1, J6, U2 NOT FITTED
STANDALONE	LK6, LK7 FITTED LK5, LK8 NOT FITTED
NON-STANDALONE	LK5, LK6, LK7, LK8 NOT FITTED

VERSIONS

PART NUMBER	DRAWING NUMBER	ISOLATED OR NON-ISOLATED	COMMS CONNECTOR	CONNECTOR POWER OR EXTERNAL POWER	STANDALONE OR NON-STANDALONE
PA0711	1901-139-1	ISOLATED	PLUG ON	EXTERNAL POWER	NON-STANDALONE
PA0712	1901-139-2	ISOLATED	RS-232	EXTERNAL POWER	STANDALONE
PA0773	1901-139-3	ISOLATED	FRC ONLY	CONNECTOR POWER	STANDALONE

UNLESS OTHERWISE STATED:
ALL RESISTANCE IN OHMS
ALL RESISTORS SFR25, 5%
ALL CAPACITANCE IN FARADS

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tyco
Safety Products
211 MACES RD, TEL: +64 3 389-5096
P.O. BOX 19-545, FAX: +64 3 389-5938
CHRISTCHURCH 8006, NEW ZEALAND

ISS/REV	AMENDMENTS	ECO	DRN	CHKD	AUTH	APVD	DATE
2.1	R10, R18 WERE 100K; R13-16 WERE 22E; R20-23 WERE NF; U3 WAS 74HC04; REMOVED J7 - J10 (H2880s) ADDED C16-C19, D13-D16, LK5-8, R25, TP10-11; MOVED VR1, D3 J3-5 WAS 'GND', J3-6 WAS '+5V ISO', J6-1 WAS '+12V'	2310	TWH	HW	RAC	DSP	25.10.95
3	PA0773 ADDED; C20, C21 ADDED; EARTH ON MTG HOLES ADDED.	2710	TWH	HW	TWH	DSCP	21.10.97
4	R25 WAS 10K. C18 WAS 2N2.	3164	GEL	RMH	LSC	DSCP	10.04.01

F4000 ISOLATED RS485 COMMS BOARD CIRCUIT DIAGRAM

DRAWING No: **1901-139** SHEET **1** of **1**

A3 ISS/REV **4** PART No: **As Above**