ELK-100
RED
YEL
BLK
(low)
(spkr)
AUDIO (low)
AUDIO(spkr)
gRAD1
nRAD1
FAULT1
TB2
TB4
RED STROBE
BLUE STROBE
AMBER LIGHT
ALARM AUDIO
MASTER TAMPER
TO TB2-8 WHT
TO TB2-9 WHT
TB1
LD260
770
775
gRAD1 (BRN)
nRAD1 (BLU)
FAULT1 (ORG)
OCC (GRN)
TAMPER (WHT)
PWR TAMPER (RED)
GND (BLK)
FAULT1 COM (W/ORG)
gRAD1 COM (W/BLU)
gRAD2 COM (W/BRN)
+BAT (RED)
TO REC #2
TO REC #1
BLU TO REC #2
BLU TO REC #1
TO NANO +12
TO NANO GND
TO NANO Q1
TB3
gRAD2
gRAD2 COM
nRAD2
nRAD2 COM
FAULT2
FAULT2 COM
RED (AC FAIL)
BLK (COM)
RED - to SC771-P13-4
BLK - to SC771-P13-3
<- RS-232 (USER)
<- ETHERNET (USER)
TO SC-770 (EJ2)
Ethernet to Fiber Optics Converter
PORT1
PORT2
PORT3
PORT4
TX
RX
+VS
GND
+12V
GND
RS-232 to RS-485 CONVERTER
DB9
RX - DB9-2
TX - DB9-3
GND - DB9-5
EJ3(14) Cord Grip
EJ4(DB9)
EJ5(ETHERNET)
SC-770
EJ1(19)
EJ2(19)
DETECTOR #2
UPPER DETECTOR
(VD-580)
BNC
MHV
LOWER DETECTOR
DETECTOR #1
SCA-775
BNC1
MHV1
BNC2
MHV2
BNC3
MHV3
BNC4
MHV4
UPPER DETECTOR 5A
UPPER DETECTOR 5B
LOWER DETECTOR 6A
LOWER DETECTOR 6B
NEUTRON DET
NEUTRON SIGNAL PICKOFF
TO TB2-12 (GND)
TO TB2-22 (+BAT)
TO TB2-11 (GND)
TO TB2-21 (+BAT)
WHT
BRN
BLU
BLK
#1 (YEL)
#2
SPEED SENSOR IR RECEIVERS
BLK
RUN
NC
I1
I2
I3
I4
C1
I5
I6
NANO CONTROLLER
+12
GND
NC
O1
O2
O3
O4
C1
TO TB2-18 (+BAT)
TO TB2-13 (GND)
TO TB2-6 (OCC)
RED
BLK
GRN
Chassis Gnd
MASTER PILLAR
SLAVE PILLAR
X-OVER CABLE
TB5
EXT1+ (OCC+)
EXT2+ (TAMP+)
SK1+
DIN+
CS9+
CNT1+
CNT2+
CNT3+
CNT4+
EXT1- (OCC-)
EXT2- (TAMP-)
SK1-
CS9-
CNT1-
CNT2-
CNT3-
CNT4-
+BAT
GND
GRN
PNK
BRN
GRY
WHT
ORG
YEL
BLU
W/GRN
W/PNK
W/BRN
W/GRY
W/BLK
W/ORG
W/YEL
W/BLU
W/VIO
RED
BLK
TO TB2-21
TO TB2-11
TB1
+BAT
GND
CORCOM
LOAD
LINE
BLK
GRN
WHT
BREAKER SWITCH
SERVICE PLUG
ACTB
L
G
N
CHARGER
V+
V-
GND
LD-260
J1-1
J1-2
J1-3
J1-4
J1-5
J2-1
J2-2
J2-3
J2-4
J2-5
J2-6
RED (AC FAIL)
BLK (COM)
PWRTAMPER
GND
J3-1
J3-2
J3-3
J4-1
J4-2
J4-3
J4-4
J4-5
+BAT RED
Battery
GROUND - GRN
NEUTRAL - BLK
LOAD - WHT
USER AC INPUT
RADAR SENSOR
BRN (+12)
BLU (GND)
BLK (OCC)
TO TB6-1
TO TB6-5
TO TB6-10
#1 (YEL)
+BAT BRN TO TB6-3
GND BLU TO TB6-7
SPEED SENSOR IR EMITTERS
#2
+BAT BRN TB6-2
GND BLU TO TB6-6
DETECTOR #4
UPPER DETECTOR
LOWER DETECTOR
DETECTOR #3
UPPER DETECTOR 7A
UPPER DETECTOR 7B
LOWER DETECTOR 8A
LOWER DETECTOR 8B
NEUTRON SIGNAL PICKOFF
MHV
J2
J6
J12
J16
J1
J5
J11
J15
PMFX4 SIG PICKOFF BOARD
BNC
SIGNAL PICKOFF DETAIL MASTER IS IDENTICAL
TB7
EXT1+ (OCC+)
EXT2+ (TAMP+)
SK1+
DIN+
CS9+
CNT1+
CNT2+
CNT3+
CNT4+
EXT1- (OCC-)
EXT2- (TAMP-)
SK1-
CS9-
CNT1-
CNT2-
CNT3-
CNT4-
+BAT
GND
GRN
PNK
BRN
GRY
WHT
ORG
YEL
BLU
W/GRN
W/PNK
W/BRN
W/GRY
W/BLK
W/ORG
W/YEL
W/BLU
W/VIO
BLK
RED
RELAY
TB6
(RED) +BAT
+BAT
(BLK) GND
GND
(WHT) TAMPER
(GRN) OCC
BRN
BLU
WHT
BLK
TO RADAR SENSOR
TO SPEED SENSOR IR EMITTERS
#1 (YEL)
#2
SLAVE TAMPER
ACTB
WHT
BLK
HEATER

Rapiscan systems — An OSI Systems Company	Title: TM850 SYSTEM WIRING DIAGRAM Model-Series: TM250	
Dimension Units: INCHES [mm]	Drawn By: PRoss	INITIALS
Tolerance: .xxx ±.005 UNLESS OTHERWISE NOTED.	Date: 10-09-12	
Location: G:/User/QualityDocuments/Electrical		
File Name: 15278A.sch	DWG # 15278	REV A
Sheet 1 of 1		TM850_WIRINGDIAGRAM