Expansion Switch
ES-4808

ES-4808

Description: The Expansion Switch is designed to accommodate 1-8 devices including Call Stations, other Expansion Switches, or Remote Control Panels. Up to 35 Expansion Switches can be used in the 4800 system to support a total of 255 Call Stations.

Operation: The Expansion Switch is to be used with the Cornell Digital Area of Refuge System to allow additional Call Stations to be added to a system.

Mounting: Expansion Switches can be located in a controlled maintenance room or closet. The 15"W X 18"H X 4"D enclosure (BB-49 to be ordered separately) includes (3) knockouts that are located at the top of the enclosure, and keyhole slots for surface mounting.

Engineering Specifications: The contractor shall furnish and install the CORNELL ES-4808 Expansion Switch as indicated on the plans. The Expansion Switch shall be mounted in a CORNELL provided enclosure, item BB-49.

Technical Information:
- Power Requirements: 24VDC
- Operating Environment: 50-120°F Indoor Non-condensing
- Physical Dimensions: 4" D, 15" W, 18"H
- Mounting: Follow instructions provided on enclosure box
- Wiring: Cat5e Ethernet cabling for Control Panel, Switch and Call Station Connections

4800 SYSTEM RISER

120 VAC, 60 Hz
@ 5 AMP

1ST FLOOR
MAINTENANCE ROOM/CLOSET

B-4248A
24VDC
POWER SUPPLY (1)

AC FAIL
LOW/BATTERY FAIL

1-8 24VDC OUTPUT

PHONE LINE
TO MODEM LOCATION

24VDC
2/16 AWG
MAX DISTANCE
478'

Cat5e
100M OR 328' LIMITATION
PHONE LINE

A-4800M
MAIN CONTROL PANEL

4800V
CALL STATION

A SINGLE CONTROL PANEL CAN SUPPORT
UP TO 8 4800V CALL STATIONS OR
A COMBINATION OF PANELS, SWITCHES
AND CALL STATIONS

POWER DETECT CIRCUIT
PARALLEL TO J9 ON THE MCP/RCP
FROM ALL POWER SUPPLIES 2/22 AWG
MAXIMUM DISTANCE 2000'

Cat5e TO THE WAN PORT ON THE 4800R
OR ES-4808 EXPANSION SWITCH 1-4 ADDITIONAL
REMOTE CONTROL PANELS CAN BE CONNECTED

A-4800R
REMOTE CONTROL PANEL

4800V
CALL STATION

EACH REMOTE CONTROL PANEL CAN SUPPORT
UP TO 8 4800V CALL STATIONS OR
A COMBINATION OF SWITCHES
AND CALL STATIONS

Cat5e TO THE WAN PORT ON THE NEXT
EXPANSION SWITCH UP TO 31 SWITCHES CAN
CONNECT FOR A TOTAL OF 255 CALL STATIONS

ES-4808
EXPANSION SWITCH

24VDC
2/16
AWG

4800V
CALL STATION

EACH EXPANSION SWITCH CAN SUPPORT
UP TO 8 4800V CALL STATIONS OR
A COMBINATION OF SWITCHES
AND CALL STATIONS

B-5248A
24VDC
POWER SUPPLY (2)

AC FAIL
LOW/BATTERY FAIL

1-8 24VDC OUTPUT

Cat5e TO THE WAN PORT ON THE NEXT
EXPANSION SWITCH UP TO 31 SWITCHES CAN
CONNECT FOR A TOTAL OF 255 CALL STATIONS

120 VAC, 60 Hz
@ 5 AMP

4TH FLOOR
MAINTENANCE ROOM/CLOSET

CABLE LEGEND

———————— 2/22 AWG NON-SHEILDED/STRANDED
UL CABLE MAXIMUM DISTANCE 2000'

———————— 2/16 AWG NON-SHEILDED/STRANDED
UL CABLE MAXIMUM DISTANCE 478'

— — — — Cat5e ETHERNET CABLE
STANDARD STRAIGHT-THRU,
TIA/EIA 568A OR TIA/EIA 568B

▌ EMI SUPPRESSION FILTERS
REQUIRED FOR FCC COMPLIANCE