

**AUDIBLE AND VISUAL ALARM EQUIPMENT UNITS
FOR INTERCONNECTION OF NO. 5 CROSSBAR WITH OTHER SYSTEMS
EQUIPMENT DESIGN REQUIREMENTS
NO. 5 CROSSBAR AND COMMON SYSTEMS**

1. GENERAL

SCOPE

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, and circuits to be used in the engineering, manufacture, and installation of auxiliary alarm relay, aisle pilot lamp, and audible alarm units required where No. 5 crossbar alarm indications are to operate alarms of other systems or where other systems alarms are to operate No. 5 alarms.

1.02 This section is reissued to add transient suppression diodes and networks to codes J99232A, B, C, D, E, and F.

DESCRIPTION

1.03 Where No. 5 crossbar and common systems equipments are located in the same frame area, the No. 5 alarm equipment per J28353 shall be provided. In this case auxiliary aisle pilot relay equipment is required to permit the common systems units to operate the No. 5 alarms. Where service alarms are required, main aisle and frame aisle pilot units are available that include both service alarm and regular No. 5 crossbar alarm lamps. Quiet audible alarm arrangements for use in operating rooms are also available.

1.04 Where No. 5 equipment units are mounted on frames that fill out an existing lineup of common systems equipment, auxiliary aisle pilot relay equipment is required to permit the No. 5 units to operate the existing alarms.

1.05 The alarm features available for use in combined offices and the quantities required are outlined in Table A.

2. SUPPLEMENTARY INFORMATION

- 819-000-000—Numerical Index—No. 5 Crossbar System
- 800-600-000—List of General Equipment Requirement Sections
- 801-000-000—Equipment Design and General Equipment Requirements and Engineering Information—Common Systems
- J28353—819-750-150—Alarm Equipment—No. 5 Crossbar System
- J29259—819-005-150—General Outline—No. 5 Crossbar Systems
- J63005—804-007-156/807-004-150—Maintenance Alarm Equipment—Toll and Telegraph Systems
- J93009—801-601-152—Central Office Audible and Visual Maintenance Alarm Equipment—Common Systems

3. DRAWINGS

WE J drawings should be ordered by referring to the prefix and base number and requesting the current dash (—) number.

Keysheets

- SD-25760-01—No. 5 Crossbar Systems
- SD-90250-01—Master Keysheet

Circuits

- SD-25671-01—Crossbar Systems—No. 5 Alarm Circuit
- SD-96446-01—Auxiliary Alarm Circuit—Offices With Crossbar Systems No. 5 and Common Systems Equipment

Equipment

- ED-26116-01—Miscellaneous Visual and Audible Alarm Units for Main Aisle and Floors

TABLE A

AUXILIARY AISLE PILOT EQUIPMENT				
ITEM	FIG. NO. ON SD-96446-01	EQUIPMENT CODE	QUANTITY REQUIRED	SEE NOTES
Aisle pilot relay unit (for circuits indicating alarms over G and R leads)	5	J99232C	One Fig. 5 per aisle	2, 3
No. 5 auxiliary aisle pilot relay unit (for aisle with toll-type audible and visual alarm circuit)	6	J99232F	One Fig. 6 per aisle	2, 4
SERVICE ALARM EQUIPMENT				
Main aisle pilot lamp	4	ED-26116-01, G6	One unit per cross aisle and per each end of main aisle	1
Aisle pilot lamp and control relay (with service alarm pilot)	1	J99232A	One unit per frame aisle	1, 2
Floor service alarm control and multiaisle pilot relay unit	2, 3	J99232B	One Fig. 2 per floor except power room; one Fig. 3 per unit requiring aisle pilots in more than one aisle	2
Audible signal	7	ED-26116-01, G13 or 14	One per floor	1
Grouping key	8	ED-26116-01, G9	One per floor except last	1
QUIET AUDIBLE ALARM EQUIPMENT				
Quiet audible alarm signal	11	—	As specified by telephone company in operating rooms and similar location	
Quiet audible alarm control relay unit	10	J99232D	One per Fig. 11	2
Audible alarm cutoff switch	9	—	One per Fig. 11	5
Quiet audible alarm interrupter unit	12	J99232E	One per seven Fig. 11	2

Notes

1. The main aisle and frame aisle pilot units for the service alarm pilots also include the regular No. 5 crossbar pilots which shall be wired into the interunit multiple as outlined in J28353. The interunit wiring for the service alarm pilots and associated control relay, key, and signal units shall be run on a miscellaneous job basis.
2. All relay units are mounted on the No. 5 alarm frame per J28353F.
3. The auxiliary aisle pilot relay circuit SD-96446-01, Fig. 5 is for use in aisles where common systems equipment is arranged to operate No. 5 alarms.
4. Where No. 5 equipment is mounted on bays which fill out existing relay rack lineup of common systems equipment, SD-96446-01, Fig. 6 shall be used for the No. 5 circuits to operate the common systems alarm in the particular aisle affected.
5. The alarm cutoff key shall be located on the wall in a manner similar to that shown on ED-96188-30, Fig. 18.

- ED-26587-01—Alarm Frame—Crossbar Systems No. 5
- ED-26918-()—Crossbar Systems No. 5—Originating Register—Line Memory Frame—Switchboard Cabling Arrangement
- ED-91192-31—Alarm Bell Panel
- ED-96188-30—Audible and Visual Alarm Signal Mountings
- J99232A-()—Aisle Pilot Unit—With Service Alarm Pilot
- J99232B-()—Floor Service Alarm Control and Service Alarm Multiaisle Pilot Unit
- J99232C-()—Auxiliary Aisle Pilot Relay Unit
- J99232D-()—Quiet Audible Alarm Control Unit
- J99232E-()—Quiet Audible Alarm Interrupter Unit
- J99232F-()—Auxiliary Aisle Pilot Relay Unit

4. EQUIPMENT

ED-26116-01—Miscellaneous Visual and Audible Alarm Units for Main Aisle and Floors

- Group 6***—Main aisle and other floor pilot lamp unit with service alarm pilot (including devices for mounting unit from superstructure or cable rack).
- Group 9***—Alarm grouping key for service alarm (including devices for mounting on wall or column).
- Group 13***—Audible alarm panel unit (including device for mounting on wall or column and fitting for conduit wiring).
- Group 14***—Audible alarm panel unit with service alarm signal (including devices for mounting on wall or column and fittings for conduit).

ED-91192-31—Alarm Bell Panel

- Group 35***—Alarm bell panel per Fig. 2 with service alarm signal.

J99232A—AT&TCo Std—Aisle Pilot Unit—With Service Alarm Pilot

Equipment—J99232A-()

- List 1***—Assembly, wiring, and equipment for one aisle pilot unit comprising MJ, MN, and SA lamps and control relays per SD-25671-01, Fig. 1 and SD-96446-01, Fig. 1.
- List 2***—Wiring and equipment per SD-25671-01, Fig. 1, ZE option, required in addition to

list 1 when B1 data carrier equipment is provided in the aisle.

- List 3***—A&M Only—Wiring and equipment required in addition to list 1 to provide an alarm for a falsely grounded fuse alarm bar in accordance with SD-25671-01, ZO option. (See Note B.)
- List 4***—A&M Only—Wiring and equipment required in addition to list 3 to provide normal fuse alarm brilliance and to prevent false release of fuse alarm relay in common control equipment in accordance with SD-25671-01, ZS option.
- List 5***—Wiring and equipment per SD-96446-01, Fig. 1, N option only, required in addition to list 1 to add transient suppression diodes.

Notes

- A. Reserved.
- B. Option ZO provides an alarm for a falsely grounded fuse alarm and should be provided when Fig. 1 of SD-25671-01 is connected to any frame equipped with fuse panels having individual fuse blocks [ED-26918-()].

J99232B—AT&TCo Std—Floor Service Alarm Control and Service Alarm Multiaisle Pilot Unit

Equipment—J99232B-()

- List 1***—Assembly, wiring, and equipment for one floor service alarm multiaisle pilot unit per SD-96446-01, Fig. 2 (less mounting plate cover). (See Note A.)
- List 2***—Wiring and equipment required in addition to list 1 for one additional floor service alarm control circuit SD-96446-01, Fig. 2.
- List 3***—Wiring and equipment required in addition to list 1 for one service alarm multiaisle pilot circuit SD-96446-01, Fig. 3.
- List 4***—Mounting plate cover to be ordered in addition to list 1 when required.
- List 5***—Wiring and equipment per SD-96446-01, Fig. 2, N option and Fig. 3, N option required in addition to lists 1, 2, and 3 to add transient suppression diodes.

Note

- A. The capacity of the unit per list 1 is three service alarm control circuits and two multiaisle pilot circuits.

J99232C—AT&TCo Std—Auxiliary Aisle Pilot Relay Unit

Equipment—J99232C-()

- List 1**—Assembly, wiring, and equipment for one auxiliary aisle pilot circuit for use where connecting circuits indicate alarms over G and R leads per SD-96446-01, Fig. 5 (less mounting plate cover). (See Note A.)
- List 2**—Wiring and equipment required in addition to list 1 to equip one auxiliary pilot circuit SD-96446-01, Fig. 5.
- List 3**—Mounting plate cover to be ordered in addition to list 1 when required.
- List 4**—Wiring and equipment per SD-96446-01, Fig. 5, N option, required in addition to lists 1 and 2 to add transient suppression diodes.

Note

- A. The capacity of the unit per list 1 is four auxiliary aisle pilot circuits.

J99232D—AT&TCo Std—Quiet Audible Alarm Control Unit

Equipment—J99232D-()

- List 1**—Assembly, wiring, and equipment for one quiet audible alarm control circuit per SD-96446-01, Fig. 10, less S option, and mounting plate cover.
- List 2**—Mounting plate cover to be ordered in addition to list 1 when required.
- List 3**—A&M Only—Wiring and equipment per SD-96446-01, Fig. 10, R option, required in addition to list 1 when unit is to be located on miscellaneous relay rack or alarm frame (provides 3-ampere fuse on unit).
- List 4**—Wiring and equipment per SD-96446-01,

Fig. 10, N option, required in addition to list 1 to add transient suppression diodes.

J99232E—AT&TCo Std—Quiet Audible Alarm Interrupter Unit

Equipment—J99232E-()

- List 1**—Assembly, wiring, and equipment for one quiet audible alarm interrupter circuit per SD-96446-01, Fig. 2, less mounting plate cover.
- List 2**—Mounting plate cover required in addition to list 1 when unit is not mounted under common frame cover.
- List 3**—Wiring and equipment per SD-96446-01, Fig. 12, N option, required in addition to list 1 to add networks and a diode to provide transient suppression.

J99232F—AT&TCo Std—Auxiliary Aisle Pilot Relay Unit

Equipment—J99232F-()

- List 1**—Assembly, wiring, and equipment for one auxiliary aisle pilot circuit for use where the No. 5 crossbar alarm circuit connects to toll-type audible and visual alarm circuit per SD-96446-01, Fig. 6 (less mounting plate cover). (See Note A.)
- List 2**—Wiring and equipment required in addition to list 1 to equip one auxiliary aisle pilot circuit SD-96446-01, Fig. 6.
- List 3**—Mounting plate cover to be ordered in addition to list 1 when required.
- List 4**—Wiring and equipment per SD-96446-01, Fig. 6, N option, required in addition to lists 1 and 2 to add transient suppression diodes.

Note

- A. The capacity of the unit per list 1 is two auxiliary aisle pilot circuits.

5. GENERAL NOTES

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J99232A, L3	A&M Only	4	
L4	A&M Only	6	
J99232D, L3	A&M Only	3	

The above equipment has been replaced as indicated. Where A&M Only items appear, the issue numbers shown are those of the issue in which the rating was first applied.

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